

Dynamics Explorer 1, Retarding Ion Mass Spectrometer Summary Spectrograms—82/001 to 82/109 Spin-Time Spectrograms for H^+ , He^+ , O^+ , N^+ , O^{++} , $M/Z = 2$, and Molecular Ions

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NASA TECHNICAL MEMORANDUM

DYNAMICS EXPLORER 1, RETARDING ION MASS SPECTROMETER SUMMARY SPECTROGRAMS

82/001 TO 82/109 SPIN-TIME SPECTROGRAMS
FOR H^+ , He^+ , O^+ , N^+ , O^{++} , $M/Z=2$, AND MOLECULAR IONS

I. INTRODUCTION TO THE DE MISSION AND THE RIMS INSTRUMENT

*The introductory material is taken, in part,
from the following sources:*

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A. DESCRIPTION OF SPACECRAFT

On August 3, 1981, a Delta rocket launched from Vandenberg Air Force Base successfully placed the two Dynamics Explorer (DE) spacecraft into coplanar polar orbits. The purpose of the mission was to acquire data relevant to processes coupling the magnetosphere, ionosphere, and upper atmosphere. The two spacecraft were manufactured by the Government System Division of RCA, and the instruments were provided by various principal investigators. A complete description of the mission, spacecraft, instruments, and ground data systems appears in an issue of *Space Science Instruments* (Volume 5, pp. 345-573, 1981), edited by R. A. Hoffman. The high-altitude satellite, DE 1, carried an auroral imager and detectors designed primarily for field and particle measurements. The low-altitude satellite carried more aeronomic-type instruments. The orbits of the two satellites remained very nearly coplanar during their joint lifetimes, providing the unique opportunity to acquire data at two altitudes along common magnetic flux tubes. DE 2, operating at ionospheric altitudes, re-entered the atmosphere in February 1983. DE 1 ceased data collection operations in March 1991.

Both spacecraft were power limited and considerable effort was expended in selecting portions of orbits for maximum science return. DE 1 had a duty cycle of nearly 90% during the early portion of the mission, but in general varied between 16-55%. DE 2 had a duty cycle between 16 and 36%. Times of magnetic conjunction between the spacecraft, or between one spacecraft and a collaborating ground observatory, were

given high priority. Also, data acquisition during passages through geophysical regions like the dayside cusp and plasmopause WAS emphasized.

B. ORBIT INFORMATION

The DE 1 satellite, carrying the RIMS experiment, was launched into an elliptical polar orbit on August 3, 1981. The ~7.5 hour orbit has perigee of 675 km altitude and apogee of 24,875 km altitude. The orbit plane drifts westward at a rate of ~1 hour MLT every 15.4 days (24 hours in 12 months); the orbit line of apsides drifts about 0.328° geographic latitude each day (moving from one pole to the other in 18 months). Thus, the orbit which started in the dawn-dusk plane with apogee over the north pole precessed to noon-midnight, with apogee over the midnight equator by the spring of 1982. The apogee continued to sweep around in latitude, bringing its position over the south pole during the summer of 1983, the noon sector equator during the spring of 1984, and returned to approximately its original position during the winter of 1984.

Note that while the DE 1 orbit provides coverage for most all local times and latitudes out to the apogee at 4.65 R_E , the 3 to 1 ratio between the drift of the line of apsides and the westward drift of the orbital plane results in uneven coverage in local time for a given altitude. In particular, in the 12-18 hour magnetic local time sector, the higher altitudes in the auroral latitude region were not fully sampled.

The spacecraft spins in a reverse cartwheel mode, at 10 rpm with its spin axis perpendicular to the orbit plane. The spacecraft orbital-plane is roughly coincident with the magnetic field meridian plane so that the radial head (mounted perpendicular to the spin axis) responds to ion fluxes for nearly the full range of magnetic pitch angles (-180° to +180°).

C. DESCRIPTION OF THE INSTRUMENT

The Retarding Ion Mass Spectrometer (RIMS) experiment onboard the DE 1 satellite was designed to perform energy and mass-per-charge analysis on low-energy ions (<50 eV) with mass/charge ranging from 1 to 40 amu/Z. The instrument is fully described by Chappell et al. (The Retarding Ion Mass Spectrometer on Dynamics Explorer-A, *Space Sci. Instrum.*, 4, 477, 1981). RIMS has significantly improved capabilities over previous retarding potential analyzer instruments (RPA) by providing ion mass/charge separation so that RPA and spin curves are obtained separately for each programmed species. These enhanced instrument

capabilities, combined with the DE 1 orbit, produced a unique opportunity to investigate the variable dynamics and composition of the low-energy ion population in the near-Earth space environment.

DE 1 RIMS consists of four instrument assemblies interconnected to form one experiment. Three of the assemblies are sensor heads and one is the central electronics assembly. The three heads are labeled according to the mounting axis on the DE 1 spacecraft: Radial, +Z, and -Z. The radial sensor views perpendicular to the spacecraft spin axis, while the $\pm Z$ sensors on the ends of the spacecraft view parallel and anti-parallel to the spin axis. The central electronics assembly (CEA) provides the spacecraft interface, all data processing, command decoding, and complete timing control of the entire RIMS experiment.

Each sensor head consists of an RPA followed by a magnetic mass analyzer with two separate exit slits corresponding to two mass/charge ranges in the ratio 1:4. The total mass/charge range covered is 1 to 40 amu/Z. Surrounding and attached to the entrance of the sensor head is a 20-cm circular aperture plate. The plate is connected to a relay which can, on command, connect to either spacecraft chassis ground or to the aperture potential power supply output. The aperture potential power supply can be set by spacecraft minor mode A command to 0, -2, -4, or -8 V to partially compensate for a non-zero positive spacecraft potential.

The retarding grid of the RPA is connected to the retarding potential power supply through a shielded conductor. The retarding potential may be set to any one of 1024 linearly spaced steps from 0 to +51.125 V with a resolution of 0.05 V. The RPA collector plate is connected through a co-axial cable to a 5-decade logarithmic amplifier. The reference voltage for the front end of the log amp is the output of the aperture potential power supply. The output of the log amp is converted, by command from the CEA, to a 10-bit digital word using an analog/digital (A/D) converter. The digital word is held in a holding register until the CEA is ready to read and process the data.

Those ions passing into the Ion Mass Spectrometer (IMS) are sorted according to their mass to charge ratio. The proper combination of ion accelerating voltage, applied magnetic field strength, and ion beam gyro radius in the applied magnetic field determines the mass/charge of the ion focused on each collector slit. Varying the ion accelerating voltage varies the ion mass/charge detected. Ions of mass/charge 1 to 8 amu/Z and 4 to 32 amu/Z can be focused on the low and high mass slits, respectively. Ions exiting the collector slits are counted by channel electron multiplier (CEM) detectors. The ion mass/charge range is also programmable by a minor mode command. Any 32 of 4096 voltage steps may be selected. All 32 steps may be the same, in which case the mass/charge analyzer will be locked onto a given pair of mass/charge peaks having the ratio 1:4. The two-channel IMS uses CEMs as detectors. The two CEMs in each sensor head are powered by a single multiplier high-voltage power supply which can be set, by spacecraft minor mode A command, to any one of four voltages, -1200, -2100,

-2400, and -2800 V. The IMS accelerating voltage comes from a swept high voltage power supply that can be addressed to any one of 4096 linearly spaced steps between 0 and -2250 V.

The output of each detector is connected to a charge sensitive pulse amplifier whose output is sent to a level detector. The discrimination level is set by spacecraft minor mode A command. Pulses from the discriminator are coupled to an 18-stage binary counter. Four bits of the counter are located in each head, and the other 14 bits of each accumulator are located in the CEA. The CEA contains the circuitry for compressing each accumulator output into a 10-bit base 2-floating point number (6-bit mantissa and 4-bit exponent) for output into the telemetry buffer.

The DE spacecraft utilizes a pulse code modulation data system with 128, 8-bit words at a main frame rate of 16 frames per second. Note that the RIMS instrument is assigned 26 of these 8-bit telemetry words. One 8-bit word is reserved for status information, five groups of 5 8-bit telemetry words each are used for measurements – where each group is considered a telemetry channel by the processor. With this convention, each telemetry channel can contain 4 each 10-bit instrument words. Each data sample represents a period of 1/4 minor frame (1/64th of a second, or 15.625 msec.) Each RIMS sensor head has three data outputs, the RPA and high and low mass IMS channels, and therefore outputs 9 measurements each 1/4 frame for a total of 36, 10-bit instrument words per telemetry minor frame. Since the 40-bit telemetry channel can contain only 4, 10-bit instrument words, only 20 of the 36 instrument words may be loaded into the telemetry channels each telemetry frame (4 instrument words x 5 telemetry channels). The telemetry channel assignments, number of words assigned to each, and their content are as follows:

- | | | |
|---|---|--|
| A | 1 | Housekeeping and status |
| B | 5 | Radial IMS low-mass channel accumulation |
| C | 5 | Radial IMS high-mass channel accumulation |
| D | 5 | Alternates each 1/4 frame between +Z IMS low & high-mass accumulation |
| E | 5 | Alternates each 1/4 frame between -Z IMS low & high-mass accumulation |
| F | 5 | Alternates each 1/4 frame between radial, +Z, and -Z RPA (electrometer) accumulation |

The instrument cycle is 32 data samples from each data source. The RIMS completes one instrument cycle each 0.5 sec. Each data sample represents a period of 15.625 msec. This interval consists of a measurement interval and a data processing interval. During the measurement interval, the IMS accumulators are active for a period of 12 msec. The 3.625 msec data processing interval is used to process the data accumulated during the measurement interval and to establish the mass/charge voltage and retarding voltage for the next integration period.

The RIMS instrument continued to return usable data until the end of the DE mission in March 1991. The radial head RPA failed on 81/329 19:50:18. It worked again between 82/045 23:30 and 82-046 06:15 before failing again. Sometime before 82/046 the -Z head

aperture bias mechanism failed. At launch the -Z head was found to be biased -2 V with respect to the other two heads. The anomaly disappeared on day 73 or 74 of 1982. The Z heads show spin variation primarily at low altitudes in cold, dense plasmas at high spacecraft velocities. For a more detailed and complete account of RIMS performance characteristics, see Olsen et al., DE-1 RIMS Operational Characteristics, NASA TM-86527, 1985.

The RIMS instrument data was provided by GSFC to ES53/MSFC on 1600 BPI magnetic tapes. The RIMS data was extracted and combined with orbit/attitude and magnetic field data to produce mission analysis files (MAF) and summary spectrograms. There is usually one MAF file per pass (RIMS instrument on/off time). Each MAF file data record consists of 8 seconds of RIMS data (512 samples per channel, each sample 1/64 sec measurement), in time order. One MAF record is 5624 bytes in size. The first 100 locations (16-bit words) of this record contain timing, orbit/attitude, B-field, and instrument mode information. Since the instrument mode takes some logic to decode, subroutines are available that perform the decoding of the instrument flags, determination of RPA/IMS settings for any sample through the 512, and decommutation of the D and E channels (Z-head data).

Data quality is, in general, excellent. Data are not always recorded at altitudes down to the DE 1 perigee of 675 km. At the lower altitudes, the plasma density can be quite high and the RIMS instrument is generally shut off to protect the particle detecting CEMs from excessive counting rates. However, on occasion, saturation of the detecting CEMs may be seen in the radial head data during low altitude-high density passes.

Detection of very low-energy ions is made difficult by the presence of floating spacecraft potentials. Analysis of RIMS data by Olsen [1989] established a density-potential relationship, such that the satellite accumulates positive charge on entering density regions below 1000 cm^{-3} , rising slowly to about +1 V at 100 cm^{-3} , and about +5 V at 10 cm^{-3} . By preventing measurement of the coldest plasma components, this potential can mask out an isotropic background plasma or, when the potential is sufficiently high, can give the appearance that no cold plasma exists in a region. This effect is known to be a concern in the plasmopause and trough region, where densities are of the order 7 to 70 cm^{-3} and the spacecraft may reach potentials of +2 to +5 V [Olsen, 1989]. At altitudes above the ionosphere in the polar regions, densities again can be sufficiently low that observation of ions of classical polar wind speed is possible only during negative aperture bias instrument modes [Nagai et al., 1984].

The DE 1/RIMS team has attempted to compensate for the spacecraft charging by the addition of a voltage bias plate at the entrance aperture of the instrument. The diameter of the external aperture plane is 20 cm, which may be compared to the spacecraft dimension of one meter in height and 1/4 meter in diameter. The instrument retarding voltages are referenced to this aperture plane, so that to the RIMS detector the effect of the bias is similar to a change in spacecraft potential,

though sheath effects can complicate the interpretation of the resulting data.

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II. DESCRIPTION OF THE RIMS SUMMARY SPECTROGRAMS

The summary spectrograms included in this volume consist of seven spin-angle versus time panels; one panel for each of the seven mass/charge settings, H^+ , He^+ , O^+ , N^+ , $M/Z=2$, O^{++} , and molecular ions. Noted at the top of each spectrogram is the date and time interval covered by the spectrogram, the instrument head, and indications of the RPA and aperture bias sort used. In this set, data were included regardless of RPA or aperture bias setting. Orbit parameters – geocentric altitude, McIlwain L-shell, magnetic local time, magnetic latitude, and invariant latitude – are given at 40-min intervals at the bottom of the page.

The panels are labeled with mass designations (i.e., L/H^+ for low mass channel, ionized hydrogen). Please note, however, that the data plotted represent the response of that RIMS channel to a specific range of mass/charge settings.

The satellite ram direction is defined to be along the center of each panel, meaning the point at which the radial detector was viewing into the direction of motion of the spacecraft. The maximum (180°) and minimum (0°) magnetic pitch angles are indicated by the black dashed and dotted lines (nearly horizontal, for the most part), respectively, corresponding to closest aperture approach to the parallel and anti-parallel directions of the Earth's magnetic field.

The data arrays used to construct each panel consist of 120 time divisions and 32 spin angle divisions. Since each spectrogram covers an 8-hour period, including a

single 7.5-hour spacecraft orbital period, each angle/time bin represents a data average over 11.25° in spin angle and 4 minutes of accumulation time. That is, the counts-per-accumulation periods (12 milliseconds), for all RPA and aperture bias settings, are averaged over the 4-min time resolution period for each 11.25° spin angle bin.

The counts-per-sample for a given spin angle-time bin is coded by vertical lines; one solid vertical line representing low counts (0 to 1 count/sample) and many closely-spaced vertical lines (approaching solid black) representing higher count rates (>5000 counts/sample). A dotted vertical line represents an angle/time bin for which sampling occurred, but no counts were registered. No vertical lines at all indicates that sampling for that ion was not performed. The squares arranged vertically to the left of the spin angle-time panels show this scale.

The counts-per-sample is proportional to the integral directional ion flux for the energy range 0 to 50 eV with approximate conversion ratios of counts to integral flux of 3.1×10^4 (particles/cm²·s·ster)/(counts/sample) for H^+ , 1.9×10^4 (particles/cm²·s·ster)/(counts/sample) for He^+ , and 4.4×10^4 (particles/cm²·s·ster)/(counts/sample) for O^+ . These factors, which reflect the mass-dependent angular response, are based on pre-flight and in-flight calibration; the ratios are time-dependent due to on-orbit CEM degradation and are offered here only as a general approximation.

III. DE 1/RIMS 1982 DATA CATALOG

Each line in the listing that follows represents one RIMS operation cycle and lists operation cycle number, instrument on/off time (UT), and quality information. An explanation of each field follows.

Operation Cycle Number: Begins with first science mode cycle. An operation cycle begins with an instrument "on" command and ends with an instrument "off" command. More than one operation cycle may be executed during a single spacecraft orbit.

Date: The year and day of year is represented as (YEAR-1900) * 1000 + DAYNUMBER.

Time Interval: The start/stop time (UT) of the operation cycle (HHMM).

Archive Flag: Used by RIMS team to flag which data have been archived to optical disk. The numerical entry is the disk number on which the data reside. "nd" or "no" = no data or too little data to archive. Used also when the electrometer was operated with the channeltrons off. In this latter case, the "nd" entry is followed by a notation of "Electrometer only." "oo" means data were not received from GSFC.

Quality Information: Text to summarize data anomalies, data gaps, and data processing problems.

"Sunpulse" means that a response of the radial head detector to solar UV can be seen in spectrograms of the data.

DNA: followed by a universal time (UT), means that data were not available for the time listed. This entry

usually indicates data were collected on the spacecraft but did not survive to the telemetry end product.

LMCD: Low mass channel degraded. Recognizable as H⁺ counts that are lower than the He⁺ counts in the high

mass channel. Usually occurs when the spacecraft is in the plasmasphere.

BMD: Bad memory dump. When this is noted, the telemetry was in error or bits were incorrect in the RIMS memory. In either case, no data are obtained.

BEGIN LISTING

```
406B82001 0313-0730 01A
407 82001 0929-1205 01A
408 82001 1420-1518 01A Conics, Ram
409 82001 1618-2130 oo
410 82002 0100-0240 01A
411 82002 0632-1200 01A
412 82002 1517-1846 01A
413 82002 1942-2235 oo
414 82003 0309-0726 01A
415 82003 0925-1201 01A
416 82003 1416-1514 01A
417 82003 1614-2126 oo
418 82004 0056-0236 01A
419 82004 0628-1156 01A
420 82004 1513-1842 01A
421 82004 1938-2231 oo
422 82005 0304-0559 01A
423 82005 0740-0818 01A
424 82005 1035-1352 01A
425 82005 1500-1611 01A
426 82005 1725-2305 01A Change of mode 2139. BMD
427 82006 0232-0450 01A
428 82006 0610-1145 01A mode change near 0733 & 1049.
429 82006 1446-2229 01A
430 82007 0300-0555 01A DNA: 0537-0555.
431 82007 0736-0814 oo
432 82007 1031-1348 01A
433 82007 1456-1607 01A
434 82007 1721-2301 oo
435 82008 0228-0446 01A
436 82008 0606-1141 01A Sunpulse
437 82008 1442-2225 01A Sunpulse
438 82009 0054-0127 01A
439 82009 0255-0809 oo
440 82009 1045-1508 01A
441 82009 1730-2200 01A Sunpulse
442 82010 0029-0445 01A Sunpulse
443 82010 0653-0850 01A
444 82010 1336-1745 01A
445 82010 1908-0000 01A
446 82011 0050-0123 01A
447 82011 0251-0805 01A
448 82011 1041-1504 01A
449 82011 1726-2156 01A Sunpulse
450 82012 0025-0441 01A Sunpulse
451 82012 0649-0846 01A
452 82012 1332-1741 01A Sunpulse
453 82012 1904-2356 01A
454 82013 0302-0753 01A Sunpulse
455 82013 1054-1445 01A
456 82013 1608-2302 01A
457 82014 0115-0420 01A
458 82014 0721-1111 01A
459 82014 1330-1932 oo
460 82014 2230-0059 01A Sunpulse
461 82015 0416-0600 nd DNA:0422 0600
462 82015 0810-1510 01A Sunpulse
463 82015 1902-2138 01A
464 82016 0118-0417 01A Sunpulse
465 82016 0725-1055 01A
466 82016 1545-2245 01A
466a82017 0016-0055 01A
466b82017 0414-0556 01A
467 82017 0806-1506 01A Sunpulse
468 82017 1858-2134 01A Sunpulse
468a82018 0114-0413 01A Sunpulse
468b82018 0721-1051 01A Sunpulse
469 82018 1541-2241 01A Sunpulse
470 82019 0002-0050 01A Sunpulse
471 82019 0159-0738 01A
472 82019 0906-1557 01A
473 82019 2008-2129 01A Sunpulse
474 82020 0113-0410 01A Sunpulse
475 82020 0720-1050 01A
476 82020 1302-1953 01A
477 82020 2302-0043 01A sunpulse
478 82021 0404-0729 01A sunpulse
479 82021 0902-1553 01A
480 82021 1805-2126 01A
481 82022 0111-0406 01A
482 82022 0717-1049 01A Sunpulse
483 82022 1258-1949 01A Sunpulse
484 82022 2324-0041 01A Sunpulse
485 82023 0404-0726 01A
486 82023 0904-1555 01A
487 82023 1840-2119 01A
488 82024 0105-0402 01A Sunpulse
489 82024 0604-1255 01A Sunpulse, dropout 12-13 UT
490 82024 1750-2225 01A
491 82024 2320-0037 01A Sunpulse
492 82025 0400-0722 01A
493 82025 0900-1551 01A Sunpulse
494 82025 1836-2115 01A
495 82026 0101-0358 01A Sunpulse
496 82026 0600-1251 01A Sunpulse, dropout 12-13 UT
497 82026 1746-2221 01A Data problem 2015-2051 UT
498 82026 2321-0024 01A Sunpulse
499 82027 0205-0709 01A
500 82027 0856-1547 01A Sunpulse
501 82027 1735-2111 01A
502 82027 2338-0342 01A Sunpulse
503 82028 0529-0954 01A Sunpulse
504 82028 1220-1911 01A
505 82028 2317-0020 01A Sunpulse
506 82029 0201-0705 01A
507 82029 0852-1543 01A
508 82029 1731-2107 01A
509 82029 2334-0338 01A Sunpulse
510 82030 0525-0950 01A Sunpulse
511 82030 1216-1907 01A
512 82030 2153-0008 01A Sunpulse
513 82031 0208-0859 oo
514 82031 1100-1350 nd DNA:1100-1350 Recorder off
515 82031 1838-2052 01A
516 82031 2331-0331 01A
517 82032 0709-1400 01A
518 82032 1600-1711 01A DNA:1600-1613
519 82032 1824-0002 01A Noisy data after 2141
520 82033 0202-0853 01A sunpulse
521 82033 1054-1344 01A
522 82033 1832-2046 01A
523 82033 2325-0325 01A
524 82034 0703-1354 01A data unavailable 0703-0715
525 82034 1554-1705 01A
526 82034 1818-2356 01A
527 82035 0153-0702 01A Sunpulse
528 82035 1050-1321 01A Sunpulse
529 82035 1455-2146 01A
530 82036 0135-0335 01A Sunpulse
531 82036 0535-0953 01A
532 82036 1038-1729 01A
533 82036 2156-2236 01A Sunpulse
534 82037 0000-0651 01A Sunpulse
535 82037 1047-1343 01A Sunpulse
536 82037 1844-2037 01A Sunpulse
537 82038 0132-0332 01A Sunpulse
538 82038 0532-0950 01A
539 82038 1032-1723 oo
540 82038 2153-2233 01A Sunpulse
541 82039 0012-0703 01A sunpulse
542 82039 1044-1340 01A Sunpulse
543 82039 1823-2016 01A Sunpulse
544 82040 0045-0324 01A Sunpulse. Bad B:0045-0111
545 82040 0507-0810 01A Sunpulse
546 82040 1016-1707 01A Sunpulse
547 82040 1806-2206 01A
548 82041 0340-0646 01A Sunpulse
549 82041 0810-1501 01A
550 82041 1836-2023 01A Sunpulse
551 82042 0039-0318 01A Sunpulse, DNA:0217-0234
552 82042 0501-0804 01A Sunpulse
553 82042 1010-1701 01A Sunpulse
554 82042 1820-2220 01A Sunpulse
555 82042 2335-0035 oo
556 82043 0250-0858 01A Sunpulse
557 82043 1200-1550 01A Sunpulse
558 82043 1640-2038 01A Sunpulse
559 82043 2310-0330 01A Sunpulse
560 82044 1430-1659 01A Sunpulse
561 82044 1757-1905 01A
562 82044 2330-0030 01A Sunpulse
563 82045 0245-0853 01A
564 82045 1155-1545 01A Sunpulse
565 82045 1635-2033 01A mode change at 01836
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566 82045 2153-0444 01A
 567 82046 0514-0802 01A
 568 82046 1141-1600 01A
 569 82046 1853-2356 01A Sunpulse
 570 82047 0141-0740 01A perigee
 571 82047 0840-1247 01A Sunpulse
 572 82047 1529-2017 01A
 573 82047 2148-0439 01A Sunpulse. Bad B:255-0438
 574 82048 0509-0757 01A
 575 82048 1136-1555 01A
 576 82048 1848-2351 01A
 577 82049 0136-0735 01A Sunpulse
 578 82049 0835-1242 oo
 579 82049 1524-2012 01A
 580 82049 2143-0302 01A Sunpulse
 581 82050 0432-0940 01A Sunpulse
 582 82050 1120-1159 01A
 583 82050 1204-1556 01A
 584 82050 1744-2144 01A
 585 82050 2353-0035 01A
 586 82051 0132-0300 nd DNA:0132-0300
 587 82051 0340-0641 oo
 588 82051 0823-1350 01A Sunpulse
 589 82051 1514-1800 01A
 590 82051 1824-2028 01A
 591 82051 2138-0257 01A DNA:2223-2257. Bad B:0130-0230
 592 82052 0427-0935 01A
 593 82052 1115-1154 01A memory dump bad 1132-1140
 594 82052 1159-1551 01A
 595 82052 1739-2139 01A
 596 82052 2348-0030 01A
 597 82053 0127-0255 01A
 598 82053 0335-0636 01A Sunpulse
 599 82053 1509-1755 01A
 600 82053 1819-2023 oo
 601 82053 2154-0310 01A
 602 82054 1129-1417 01A Data problem 1129-1200 UT
 603 82054 1425-1659 01A
 604 82054 1829-2020 01A
 605 82054 2155-2337 01A
 606 82055 0807-1150 01A Sunpulse
 607 82055 1500-1630 01A
 608 82055 1705-2020 01A
 609 82055 2149-0305 01A
 610 82056 1124-1412 01A
 611 82056 1420-1654 01A
 612 82056 1824-2015 01A
 613 82056 2150-2332 01A
 614 82057 0112-0627 01A
 615 82057 0802-1145 01A
 616 82057 1455-1625 01A
 617 82057 1700-2015 01A
 618 82057 2147-2320 01A
 619 82058 0926-1044 01A LMCD
 620 82058 1129-1649 01A LMCD
 621 82058 1820-2332 01A LMCD
 622 82059 0802-1130 01A LMCD
 623 82059 1450-1847 01A LMCD.DNA:1502-1537,1809-1817
 624 82059 2144-2314 01A LMCD
 625 82060 0914-1300 01A LMCD
 626 82060 1538-2043 01A LMCD
 627 82060 2311-0234 01A L.M.C.D. DNA: 0137-0234
 628 82061 0359-0714 01A L.M.C.D. Rec. off:0547-0714
 629 82061 1000-1313 nd DNA:1000-1313
 630 82061 1447-1617 01A LMCD
 631 82061 1700-1907 01A LMCD
 632 82061 2138-2308 01A LMCD
 633 82062 0045-0736 01A LMCD
 634 82062 1533-2038 01A
 635 82062 2120-2240 01A
 636 82063 0050-0229 nd DNA:0050-0229 Recorder off
 637 82063 0354-0709 oo
 638 82063 0751-0921 01A
 639 82063 0955-1308 01A
 640 82063 1442-1612 01A
 641 82063 1655-1800 01A
 642 82063 2020-2303 01A LMCD
 643 82064 0050-0334 01A LMCD
 644 82064 0424-0556 01A LMCD
 645 82064 0747-0944 01A LMCD
 646 82064 1115-1253 01A LMCD
 647 82064 1305-1632 01A LMCD
 648 82064 1814-1944 01A LMCD
 649 82064 1956-2317 01A LMCD
 650 82065 0058-0235 01A LMCD
 651 82065 0325-0702 01A LMCD
 652 82065 0750-0920 01A LMCD
 653 82065 0932-1302 01A LMCD
 654 82065 1444-1614 01A LMCD
 655 82065 1700-1905 01A Few counts any mass
 656 82065 2125-2305 01A LMCD
 657 82066 0045-0329 01A

658 82066 0419-0551 01A LMCD
 659 82066 0742-0939 01A LMCD
 660 82066 1110-1248 01A LMCD
 661 82066 1300-1627 01A LMCD
 662 82066 1809-1939 01A LMCD
 663 82066 1951-2312 01A LMCD. DNA: 2058-2107
 664 82067 0053-0230 01A
 665 82067 0320-0657 01A LMCD
 666 82067 0745-0915 01A
 667 82067 0927-1257 01A LMCD
 668 82067 1439-1609 01A LMCD
 669 82067 1655-1900 01A
 670 82067 2120-2300 01A LMCD
 671 82067 2350-0235 01A LMCD
 672 82068 0415-0540 01A LMCD
 673 82068 0556-0926 01A LMCD. BMD
 674 82068 1050-1232 01A LMCD
 675 82068 1452-1623 01A LMCD
 676 82068 1700-1914 01A LMCD
 677 82068 1926-2130 01A
 678 82069 0050-0210 01A LMCD
 679 82069 0350-0902 01A LMCD
 680 82069 0926-1253 01A
 681 82069 1431-1541 01A LMCD
 682 82069 1600-1850 01A Low counts all masses. BMD
 683 82069 2126-2240 01A LMCD
 684 82070 0041-0326 01A LMCD
 685 82070 0405-0530 01A LMCD
 686 82070 0731-0927 01A
 687 82070 1030-1217 01A LMCD
 688 82070 1232-1617 oo
 689 82070 1740-1910 01A LMCD (recovering)
 690 82070 1930-2302 oo
 691 82071 0040-0159 01A LMCD
 692 82071 0241-0552 01A LMCD
 693 82071 0730-0850 01A LMCD
 694 82071 1030-1540 01A LMCD
 695 82071 1720-2230 01A
 696 82071 2300-0225 01A LMCD
 697 82072 0332-0510 01A LMCD
 698 82072 0540-0916 01A
 699 82072 1053-1341 01A LMCD
 700 82072 1650-2115 01A LMCD
 701 82073 0038-0400 01A LMCD
 702 82073 0732-1020 01A LMCD
 703 82073 1220-1911 01A LMCD
 704 82073 2100-2300 01A LMCD
 705 82074 0201-0852 01A LMCD
 706 82074 1030-1510 01A LMCD
 707 82074 1650-2120 01A LMCD
 708 82075 0047-0356 01A
 709 82075 0516-0635 oo
 710 82075 0740-1431 01A LMCD
 711 82075 1500-1929 01A LMCD
 712 82075 2032-0214 01A LMCD
 713 82076 0340-0908 01A
 714 82076 1011-1702 01A LMCD
 715 82076 1805-2247 01A
 716 82077 0038-0542 01A
 717 82077 0644-1248 01A LMCD
 718 82077 1333-2024 01A LMCD
 719 82077 2027-0209 01A LMCD
 720 82078 0335-0903 01A LMCD DNA:0335-0414;0746-0903
 721 82078 1006-1657 01A
 722 82078 1800-2242 01A LMCD
 723 82079 0033-0537 01A
 724 82079 0639-1243 01A DNA:0722-0920
 725 82079 1328-2024 01A
 726 82079 2056-0208 01A
 727 82080 0335-1026 01A
 728 82080 1100-1348 01A
 729 82080 1400-1600 01A
 730 82080 1638-2244 01A
 731 82081 0023-0531 01A
 732 82081 0641-1332 01A
 733 82081 1400-1920 01A
 734 82081 2051-0203 01A
 735 82082 0330-1021 01A
 736 82082 1055-1343 oo
 737 82082 1355-1555 oo
 738 82082 1633-2239 01A
 739 82083 0018-0526 01A
 740 82083 0636-1327 01A
 741 82083 1355-1915 01A
 742 82084 0335-0850 01A DNA: 0354-0448, 0747-0757
 743 82084 1647-2338 01A LMCD
 744 82085 0020-0524 01A LMCD
 745 82085 0550-1229 01A LMCD
 746 82085 1320-2011 01A
 747 82085 2046-0255 01A LMCD, Slightly Degraded
 748 82086 0330-0845 01A DNA:0659-0828, LMCD
 749 82086 1100-1545 01A LMCD


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750 82086 1642-2333 01A
751 82087 0015-0519 oo
752 82087 0545-1224 oo
753 82087 1315-2006 01A LMCD. DNA:1639-1657
754 82087 2036-0244 01A LMCD. DNA:0045-0244
755 82088 0340-0844 oo
756 82088 1014-1538 01A LMCD
757 82088 1609-2300 01A DNA:1938-2129
758 82089 0002-0514 01A
759 82089 0620-1311 01A m1333 no H+/He+
760 82089 1341-1859 01A LMCD
761 82089 2031-0239 01A
762 82090 0335-0839 01A LMCD
763 82090 1009-1533 01A
764 82090 1604-2255 01A
765 82091 0057-0509 01A
766 82091 0615-1306 01A DNA:0644-0732;1132-1306
767 82091 2025-0231 01A
768 82092 0301-0907 01A
769 82092 0937-1628 01A
770 82092 1705-2250 01A
771 82092 2320-0505 nd DNA:2320-0505
772 82093 0535-1059 01A DNA:0641-0644, 0928-1059
773 82093 1127-1818 01A
774 82093 2020-0226 01A
775 82094 0256-0902 01A
776 82094 0932-1623 oo
777 82094 1700-2245 01A M0832 mode no toggle
778 82094 2315-0500 01A
779 82095 1122-1813 oo
780 82095 1843-0113 01A M0832 mode no toggle
781 82096 0143-0823 01A M0832 mode no toggle

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782 82096 1649-2311 01A M0832 no toggle
783 82096 2341-0632 01A DNA:0310-0451
784 82097 1220-1808 01A M0832 no toggle
785 82097 1838-0108 01A
786 82098 0138-0818 01A
787 82099 2047-2049 nd DNA:2047-2049
788 82099 2134-0212 nd DNA:2134-0212
789 82102 2325-0442 01B
790 82103 0615-1205 01B
791 82103 1235-1926 01B
792 82104 0240-0810 01B
793 82104 0840-1529 01B
794 82104 1559-2250 01B DNA:1941-2104
795 82104 2320-0438 01B
796 82105 0610-1136 01B
797 82105 1200-1824 01B
798 82106 0235-0805 01B change of mode -0555
799 82106 0835-1524 01B
800 82106 1554-2245 01B
801 82106 2315-0433 nd DNA:2315-0433
802 82107 0605-1131 01B
803 82107 1155-1819 01B Mode change about 1227
804 82107 1918-0209 01B
805 82108 0410-0900 01B
806 82108 1110-1800 01B DNA:1619-1800
807 82108 2130-0420 01B
808 82109 0540-1123 01B
809 82109 1156-1847 01B
810 82109 2200-0048 01B

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END OF LISTING

IV. DEI/RIMS 1982 INSTRUMENT MODES

The RIMS instrument, being programmable by spacecraft major and minor mode commands, operated in a variety of survey modes during the experiment lifetime. The operating sequence is controlled by an internal memory in the CEA which is programmed by ground command. The RIMS commonly performed two basic operational functions during the mission: (1) The RPA voltage is swept over a selected range for a given mass/charge and, (2) the RPA voltage is set to zero and a sweep is made over a selected mass/charge range. There are several variations of these modes, several specialized modes, and several combinations of sweeps, aperture biasing, and cycling patterns.

Users of the RIMS MAF data sets must be aware of the instrument mode setting for the segment of data being analyzed. The documentation data set, a listing of which accompanies this set of summary spectrograms, lists the RIMS minor mode B commands employed during the mission, keyed to the data's universal time. Brief information on the meaning of the mode mnemonics is given with that listing.

The following is a summary of the RIMS nominal operating modes:

IMSON, RPAON, APPON: "Turn-on" and initiation commands.

STOPIT: "Turn-off" command.

HIXXZ: A family of modes in which the instrument is measuring only one mass/charge pair and concentrating on either high mass/charge or angular resolution. The two unspecified locations in the mnemonic denoted by X will specify the heavier of the pair while the location denoted by Z refers to an RPA program.

XVXXZ: A family of survey modes in which the instrument splits its observing pattern

between the H⁺/He⁺ mass/charge pair and one other mass/charge pair. The definition of the unspecified location is the same as in the previous case. The total cycle time is 16 sec.

SXYYZ: The alternate memory is used to observed the H⁺/He⁺ pair and the normal memory to observe another mass/charge pair. The XX denotes the heavier of the mass/charge pair under normal memory control. Each mass/charge pair is sampled for 8 sec. Total cycle time is 16 sec.

TXYYZ: A survey mode which is similar to the previous survey mode with the exception of the sequencing pattern. In this case, the H⁺/He⁺ setting is maintained for 8 sec with an RPA cycle each 0.25 sec. In the subsequent 8-sec half of the cycle time, the instrument toggles between the alternate mass/charge pairs each 0.25 sec. The total cycle time is 16 sec.

MXXYY: A mass/charge sweep mode starting at mass/charge XX and ending at mass/charge YY. The specified mass/charge numbers are those of the heavy mass channel. The lower mass channel is operating and measuring mass/charge species of 1/4 the high mass values. Note: The sweep may not be continuous within the specified range if prior instrument experience has indicated that certain mass/charge numbers are unpopulated. The cycle time is 0.5 sec.

CXXYY: A mass/charge sweep mode with interspersed RPA analysis of the H⁺/He⁺ pair. The cycle time is 16 sec.

SHXXY: A special mode for high latitude studies. The three ions O⁺, H⁺, and He⁺ are measured with RPA scans for each. The cycle time is 1/2 sec.

SSZZZ: Special science modes designed after launch. Contact RIMS science team.

PLPHN: Plasma mode used to investigate spacecraft/plasma interactions. Geophysical

INSTR: Instrument check out, test, and calibration modes.

NAMMAP2X	-2 volts
NAMMAP4X	-4 volts
NAMMAP8X	-8 volts
PH20AAAA	-2 volts
PH20ADTD	-2 volts
PH40AAAA	-4 volts
PH40ADTD	-4 volts
PH80AAAA	-8 volts
PH80ADAA	-8 volts
PH80ADTD	-8 volts
PL80ADAA	-8 volts
HI04A02X	-2 volts

HI04A03X	-4 volts
HI04A04X	-8 volts
SH16M02X	-8 volts
SSNV801X	-8 volts
SSN8V01X	-8 volts
T816Q03X	-2 volts
T816Q04X	-4 volts
T816205X	-8 volts
SS04P01	-8 volts

In the listing that follows, the year and daynumber is coded as (YEAR-1980) * 1000 + DAYNUMBER. The universal time of day is coded as HHMMSS.

[illegible]

DE 1/RIMS 1982 Instrument Modes

2022 071700 IMSON	2031 000800 STOPIT	2038 215300 IMSON	2045 215800 T816Q02X	2045 233000 T816Q02X
2022 071716 HI04N01	2031 020800 IMSON	2038 215316 SH16M01	2045 215900 T816Q05X	2045 233100 T816Q03X
2022 104900 STOPIT	2031 020816 T816Q01	2038 223300 STOPIT	2045 220000 T816Q02X	2045 233200 T816Q02X
2022 125800 IMSON	2031 085900 STOPIT	2039 001200 IMSON	2045 220100 T816Q03X	2045 233300 T816Q04X
2022 125816 T816E03	2031 110000 IMSON	2039 001216 T816Q01	2045 220200 T816Q02X	2045 233400 T816Q02X
2022 194900 STOPIT	2031 110016 SH16M01	2039 070300 STOPIT	2045 220300 T816Q04X	2045 233500 T816Q05X
2022 232400 IMSON	2031 135000 STOPIT	2039 104400 IMSON	2045 220400 T816Q02X	2045 233600 T816Q02X
2022 232416 SH16M01	2031 183800 IMSON	2039 104416 HI04N02	2045 220500 T816Q05X	2045 233700 T816Q03X
2023 004100 STOPIT	2031 183816 HI04N01	2039 134000 STOPIT	2045 220600 T816Q02X	2045 233800 T816Q02X
2023 040400 IMSON	2031 205200 STOPIT	2039 182300 IMSON	2045 220700 T816Q03X	2045 233900 T816Q04X
2023 040416 SS04P01	2031 233100 IMSON	2039 182316 SH16M01	2045 220800 T816Q02X	2045 234000 T816Q02X
2023 072600 STOPIT	2031 233116 SS04P01	2039 201600 STOPIT	2045 220900 T816Q04X	2045 234100 T816Q05X
2023 090400 IMSON	2032 033100 STOPIT	2040 004500 IMSON	2045 221000 T816Q02X	2045 234200 T816Q02X
2023 090416 T816E03	2032 070900 IMSON	2040 004516 HI04N02	2045 221100 T816Q05X	2045 234300 T816Q03X
2023 155500 STOPIT	2032 070916 T816Q01	2040 032400 STOPIT	2045 221200 T816Q02X	2045 234400 T816Q02X
2023 184000 IMSON	2032 140000 STOPIT	2040 050700 IMSON	2045 221300 T816Q03X	2045 234500 T816Q04X
2023 184016 HI04N01	2032 160000 IMSON	2040 050716 T816Q01	2045 221400 T816Q02X	2045 234600 T816Q02X
2023 211900 STOPIT	2032 160016 SH16M01	2040 065700 HI04N02	2045 221500 T816Q04X	2045 234700 T816Q05X
2024 010500 IMSON	2032 171100 STOPIT	2040 081000 STOPIT	2045 221600 T816Q02X	2045 234800 T816Q02X
2024 010516 SH16M01	2032 182400 IMSON	2040 101600 IMSON	2045 221700 T816Q05X	2045 234900 T816Q03X
2024 040200 STOPIT	2032 182416 T816Q01	2040 101616 T816Q01	2045 221800 T816Q02X	2045 235000 T816Q02X
2024 060400 IMSON	2033 000200 STOPIT	2040 170700 STOPIT	2045 221900 T816Q03X	2045 235100 T816Q04X
2024 060416 M283401	2033 020200 IMSON	2040 180600 IMSON	2045 222000 T816Q02X	2045 235200 T816Q02X
2024 125500 STOPIT	2033 020216 T816Q01	2040 180616 T816Q01	2045 222100 T816Q04X	2045 235300 T816Q05X
2024 175000 IMSON	2033 085300 STOPIT	2040 220600 STOPIT	2045 222200 T816Q02X	2045 235400 T816Q02X
2024 175016 T816E03	2033 105400 IMSON	2041 034000 IMSON	2045 222300 T816Q05X	2045 235500 T816Q03X
2024 222500 STOPIT	2033 105416 SH16M01	2041 034016 SH16M01	2045 222400 T816Q02X	2045 235600 T816Q02X
2024 232000 IMSON	2033 134400 STOPIT	2041 064600 STOPIT	2045 222500 T816Q03X	2045 235700 T816Q04X
2024 232016 SH16M01	2033 183200 IMSON	2041 081000 IMSON	2045 222600 T816Q02X	2045 235800 T816Q02X
2025 003700 STOPIT	2033 183216 HI04N01	2041 081016 M083201	2045 222700 T816Q04X	2045 235900 T816Q05X
2025 040000 IMSON	2033 204600 STOPIT	2041 150100 STOPIT	2045 222800 T816Q02X	2046 000000 T816Q02X
2025 040016 SS04P01	2033 232500 IMSON	2041 183600 IMSON	2045 222900 T816Q05X	2046 000100 T816Q03X
2025 072200 STOPIT	2033 232516 SS04P01	2041 183616 SH16M01	2045 223000 T816Q02X	2046 000200 T816Q02X
2025 090000 IMSON	2034 032500 STOPIT	2041 202300 STOPIT	2045 223100 T816Q03X	2046 000300 T816Q04X
2025 090016 T816E03	2034 070300 IMSON	2042 003900 IMSON	2045 223200 T816Q02X	2046 000400 T816Q02X
2025 155100 STOPIT	2034 070316 T816Q01	2042 003916 HI04N02	2045 223300 T816Q04X	2046 000500 T816Q05X
2025 183600 IMSON	2034 135400 STOPIT	2042 031800 STOPIT	2045 223400 T816Q02X	2046 000600 T816Q02X
2025 183616 HI04N01	2034 155400 IMSON	2042 050100 IMSON	2045 223500 T816Q05X	2046 000700 T816Q03X
2025 211500 STOPIT	2034 155416 SH16M01	2042 050116 T816Q01	2045 223600 T816Q02X	2046 000800 T816Q02X
2026 010100 IMSON	2034 170500 STOPIT	2042 065100 HI04N02	2045 223700 T816Q03X	2046 000900 T816Q04X
2026 010116 SH16M01	2034 181800 IMSON	2042 080400 STOPIT	2045 223800 T816Q02X	2046 001000 T816Q02X
2026 035800 STOPIT	2034 181816 T816Q01	2042 101000 IMSON	2045 223900 T816Q04X	2046 001100 T816Q05X
2026 060000 IMSON	2034 235600 STOPIT	2042 101016 T816Q01	2045 224000 T816Q02X	2046 001200 T816Q02X
2026 060016 M283401	2035 015300 IMSON	2042 170100 STOPIT	2045 224100 T816Q05X	2046 001300 T816Q03X
2026 125100 STOPIT	2035 015316 HI04N01	2042 182000 IMSON	2045 224200 T816Q02X	2046 001400 T816Q02X
2026 174600 IMSON	2035 015600 HI04N02	2042 182016 T816Q01	2045 224300 T816Q03X	2046 001500 T816Q04X
2026 174616 T816E03	2035 015700 HI04N01	2042 222000 STOPIT	2045 224400 T816Q02X	2046 001600 T816Q02X
2026 222100 STOPIT	2035 015800 HI04N02	2042 233500 IMSON	2045 224500 T816Q04X	2046 001700 T816Q05X
2026 232100 IMSON	2035 015900 HI04N01	2042 233516 T816Q02	2045 224600 T816Q02X	2046 001800 T816Q02X
2026 232116 HI04N01	2035 020000 HI04N02	2043 003500 STOPIT	2045 224700 T816Q05X	2046 001900 T816Q03X
2027 002400 STOPIT	2035 020100 HI04N01	2043 025000 IMSON	2045 224800 T816Q02X	2046 002000 T816Q02X
2027 020500 IMSON	2035 020200 HI04N02	2043 025016 T816Q02	2045 224900 T816Q03X	2046 002100 T816Q04X
2027 020516 SH16M01	2035 020300 HI04N01	2043 085800 STOPIT	2045 225000 T816Q02X	2046 002200 T816Q02X
2027 070900 STOPIT	2035 020400 HI04N02	2043 120000 IMSON	2045 225100 T816Q04X	2046 002300 T816Q05X
2027 085600 IMSON	2035 020500 HI04N01	2043 120016 HI04N01	2045 225200 T816Q02X	2046 002400 T816Q02X
2027 085616 T816E03	2035 070200 STOPIT	2043 134700 T816Q02	2045 225300 T816Q05X	2046 002500 T816Q03X
2027 154700 STOPIT	2035 105000 IMSON	2043 155000 STOPIT	2045 225400 T816Q02X	2046 002600 T816Q02X
2027 173500 IMSON	2035 105016 HI04N01	2043 164000 IMSON	2045 225500 T816Q03X	2046 002700 T816Q04X
2027 173516 SS04P01	2035 132100 STOPIT	2043 164016 T816Q02	2045 225600 T816Q02X	2046 002800 T816Q02X
2027 211100 STOPIT	2035 145500 IMSON	2043 184100 SH16M01	2045 225700 T816Q04X	2046 002900 T816Q05X
2027 233800 IMSON	2035 145516 M283401	2043 203800 STOPIT	2045 225800 T816Q02X	2046 003000 T816Q02X
2027 233816 SH16M01	2035 214600 STOPIT	2043 231000 IMSON	2045 225900 T816Q05X	2046 003100 T816Q03X
2028 034200 STOPIT	2036 013500 IMSON	2043 231016 HI04N01	2045 230000 T816Q02X	2046 003200 T816Q02X
2028 052900 IMSON	2036 013516 HI04N01	2044 031700 T816Q02	2045 230100 T816Q03X	2046 003300 T816Q04X
2028 052916 HI04N01	2036 033500 STOPIT	2044 033000 STOPIT	2045 230200 T816Q02X	2046 003400 T816Q02X
2028 095400 STOPIT	2036 053500 IMSON	2044 143000 IMSON	2045 230300 T816Q04X	2046 003500 T816Q05X
2028 122000 IMSON	2036 053516 SS04P01	2044 143016 T816Q02	2045 230400 T816Q02X	2046 003600 T816Q02X
2028 122016 M083201	2036 095300 STOPIT	2044 150500 SH16M01	2045 230500 T816Q05X	2046 003700 T816Q03X
2028 191100 STOPIT	2036 103800 IMSON	2044 165900 STOPIT	2045 230600 T816Q02X	2046 003800 T816Q02X
2028 231700 IMSON	2036 103816 T816Q01	2044 175700 IMSON	2045 230700 T816Q03X	2046 004000 T816Q04X
2028 231716 HI04N02	2036 172900 STOPIT	2044 175716 T816Q02	2045 230800 T816Q02X	2046 004100 T816Q02X
2029 002000 STOPIT	2036 215600 IMSON	2044 190500 STOPIT	2045 230900 T816Q04X	2046 004200 T816Q05X
2029 020100 IMSON	2036 215616 SH16M01	2044 233000 IMSON	2045 231000 T816Q02X	2046 004300 T816Q02X
2029 020116 SH16M01	2036 223600 STOPIT	2044 233016 T816Q02	2045 231100 T816Q05X	2046 004400 T816Q03X
2029 070500 STOPIT	2037 000000 IMSON	2045 003000 STOPIT	2045 231200 T816Q02X	2046 004500 T816Q02X
2029 085200 IMSON	2037 000016 T816Q01	2045 024500 IMSON	2045 231300 T816Q03X	2046 004600 T816Q04X
2029 085216 T816E03	2037 065100 STOPIT	2045 024516 T816Q02	2045 231400 T816Q02X	2046 004700 T816Q02X
2029 154300 STOPIT	2037 104700 IMSON	2045 085300 STOPIT	2045 231500 T816Q04X	2046 004800 T816Q05X
2029 173100 IMSON	2037 104716 HI04N02	2045 115500 IMSON	2045 231600 T816Q02X	2046 004900 T816Q02X
2029 173116 SS04P01	2037 134300 STOPIT	2045 115516 HI04N01	2045 231700 T816Q05X	2046 005000 T816Q03X
2029 210700 STOPIT	2037 184400 IMSON	2045 134200 T816Q02	2045 231800 T816Q02X	2046 005100 T816Q02X
2029 233400 IMSON	2037 184416 SH16M01	2045 154500 STOPIT	2045 231900 T816Q03X	2046 005200 T816Q04X
2029 233416 SH16M01	2037 203700 STOPIT	2045 163500 IMSON	2045 232000 T816Q02X	2046 005300 T816Q02X
2030 033800 STOPIT	2038 013200 IMSON	2045 163516 T816Q02	2045 232100 T816Q04X	2046 005400 T816Q05X
2030 052500 IMSON	2038 013216 HI04N01	2045 183600 SH16M01	2045 232200 T816Q02X	2046 005500 T816Q02X
2030 052516 HI04N01	2038 033200 STOPIT	2045 203300 STOPIT	2045 232300 T816Q05X	2046 005600 T816Q03X
2030 095000 STOPIT	2038 053200 IMSON	2045 215300 APPON	2045 232400 T816Q02X	2046 005700 T816Q02X
2030 121600 IMSON	2038 053216 SS04P01	2045 215316 T816Q02	2045 232500 T816Q03X	2046 005800 T816Q04X
2030 121616 M083201	2038 095000 STOPIT	2045 215400 T816Q02X	2045 232600 T816Q02X	2046 005900 T816Q02X
2030 190700 STOPIT	2038 103200 IMSON	2045 215500 T816Q03X	2045 232700 T816Q04X	2046 010000 T816Q05X
2030 215300 IMSON	2038 103216 T816Q01	2045 215600 T816Q02X	2045 232800 T816Q02X	2046 010100 T816Q02X
2030 215316 HI04N01	2038 172300 STOPIT	2045 215700 T816Q04X	2045 232900 T816Q05X	2046 010200 T816Q03X

DE 1/RIMS 1982 Instrument Modes

2046 010300	T816Q02X	2046 023500	T816Q02X	2046 040700	T816Q02X	2046 060700	SH16M02X	2046 073900	SH16M02X
2046 010400	T816Q04X	2046 023600	T816Q05X	2046 040800	T816Q03X	2046 060800	SH16M03X	2046 074000	SH16M03X
2046 010500	T816Q02X	2046 023700	T816Q02X	2046 040900	T816Q02X	2046 060900	SH16M02X	2046 074100	SH16M02X
2046 010600	T816Q05X	2046 023800	T816Q03X	2046 041000	T816Q04X	2046 061000	SH16M03X	2046 074200	SH16M03X
2046 010700	T816Q02X	2046 023900	T816Q02X	2046 041100	T816Q02X	2046 061100	SH16M02X	2046 074300	SH16M02X
2046 010800	T816Q03X	2046 024000	T816Q04X	2046 041200	T816Q05X	2046 061200	SH16M03X	2046 074400	SH16M03X
2046 010900	T816Q02X	2046 024100	T816Q02X	2046 041300	T816Q02X	2046 061300	SH16M02X	2046 074500	SH16M02X
2046 011000	T816Q04X	2046 024200	T816Q05X	2046 041400	T816Q03X	2046 061400	SH16M03X	2046 074600	SH16M03X
2046 011100	T816Q02X	2046 024300	T816Q02X	2046 041500	T816Q02X	2046 061500	SH16M02X	2046 074700	SH16M02X
2046 011200	T816Q05X	2046 024400	T816Q03X	2046 041600	T816Q04X	2046 061600	SH16M03X	2046 074800	SH16M03X
2046 011300	T816Q02X	2046 024500	T816Q02X	2046 041700	T816Q02X	2046 061700	SH16M02X	2046 074900	SH16M02X
2046 011400	T816Q03X	2046 024600	T816Q04X	2046 041800	T816Q05X	2046 061800	SH16M03X	2046 075000	SH16M03X
2046 011500	T816Q02X	2046 024700	T816Q02X	2046 041900	T816Q02X	2046 061900	SH16M02X	2046 075100	SH16M02X
2046 011600	T816Q04X	2046 024800	T816Q05X	2046 042000	T816Q03X	2046 062000	SH16M03X	2046 075200	SH16M03X
2046 011700	T816Q02X	2046 024900	T816Q02X	2046 042100	T816Q02X	2046 062100	SH16M02X	2046 075300	SH16M02X
2046 011800	T816Q05X	2046 025000	T816Q03X	2046 042200	T816Q04X	2046 062200	SH16M03X	2046 075400	SH16M03X
2046 011900	T816Q02X	2046 025100	T816Q02X	2046 042300	T816Q02X	2046 062300	SH16M02X	2046 075500	SH16M02X
2046 012000	T816Q03X	2046 025200	T816Q04X	2046 042400	T816Q05X	2046 062400	SH16M03X	2046 075600	SH16M03X
2046 012100	T816Q02X	2046 025300	T816Q02X	2046 042500	T816Q02X	2046 062500	SH16M02X	2046 075700	SH16M02X
2046 012200	T816Q04X	2046 025400	T816Q05X	2046 042600	T816Q03X	2046 062600	SH16M03X	2046 075800	SH16M03X
2046 012300	T816Q02X	2046 025500	T816Q02X	2046 042700	T816Q02X	2046 062700	SH16M02X	2046 075900	SH16M02X
2046 012400	T816Q05X	2046 025600	T816Q03X	2046 042800	T816Q04X	2046 062800	SH16M03X	2046 080100	SH16M03X
2046 012500	T816Q02X	2046 025700	T816Q02X	2046 042900	T816Q02X	2046 062900	SH16M02X	2046 080200	STOPIT
2046 012600	T816Q03X	2046 025800	T816Q04X	2046 043000	T816Q05X	2046 063000	SH16M03X	2046 114100	IMSON
2046 012700	T816Q02X	2046 025900	T816Q02X	2046 043100	T816Q02X	2046 063100	SH16M02X	2046 114116	HI04N01
2046 012800	T816Q04X	2046 030000	T816Q05X	2046 043200	T816Q03X	2046 063200	SH16M03X	2046 114200	HI04N01X
2046 012900	T816Q02X	2046 030100	T816Q02X	2046 043300	T816Q02X	2046 063300	SH16M02X	2046 114300	HI04N03X
2046 013000	T816Q05X	2046 030200	T816Q03X	2046 043400	T816Q04X	2046 063400	SH16M03X	2046 114400	HI04N01X
2046 013100	T816Q02X	2046 030300	T816Q02X	2046 043500	T816Q02X	2046 063500	SH16M02X	2046 114500	HI04N03X
2046 013200	T816Q03X	2046 030400	T816Q04X	2046 043600	T816Q05X	2046 063600	SH16M03X	2046 114600	HI04N01X
2046 013300	T816Q02X	2046 030500	T816Q02X	2046 043700	T816Q02X	2046 063700	SH16M02X	2046 114700	HI04N03X
2046 013400	T816Q04X	2046 030600	T816Q05X	2046 043800	T816Q03X	2046 063800	SH16M03X	2046 114800	HI04N01X
2046 013500	T816Q02X	2046 030700	T816Q02X	2046 043900	T816Q02X	2046 063900	SH16M02X	2046 114900	HI04N03X
2046 013600	T816Q05X	2046 030800	T816Q03X	2046 044000	T816Q04X	2046 064000	SH16M03X	2046 115000	HI04N01X
2046 013700	T816Q02X	2046 030900	T816Q02X	2046 044100	T816Q02X	2046 064100	SH16M02X	2046 115100	HI04N03X
2046 013800	T816Q03X	2046 031000	T816Q04X	2046 044200	T816Q05X	2046 064200	SH16M03X	2046 115200	T816Q02
2046 013900	T816Q02X	2046 031100	T816Q02X	2046 044300	T816Q02X	2046 064300	SH16M02X	2046 160000	STOPIT
2046 014000	T816Q04X	2046 031200	T816Q05X	2046 044400	STOPIT	2046 064400	SH16M03X	2046 185300	APPON
2046 014100	T816Q02X	2046 031300	T816Q02X	2046 051400	APPON	2046 064500	SH16M02X	2046 185316	T816Q02
2046 014200	T816Q05X	2046 031400	T816Q03X	2046 051416	SH16M01	2046 064600	SH16M03X	2046 185416	T816Q05X
2046 014300	T816Q02X	2046 031500	T816Q02X	2046 051500	SH16M02X	2046 064700	SH16M02X	2046 235600	STOPIT
2046 014400	T816Q03X	2046 031600	T816Q04X	2046 051600	SH16M03X	2046 064800	SH16M03X	2047 014100	IMSON
2046 014500	T816Q02X	2046 031700	T816Q02X	2046 051700	SH16M02X	2046 064900	SH16M02X	2047 014116	T816Q02
2046 014600	T816Q04X	2046 031800	T816Q05X	2046 051800	SH16M03X	2046 065000	SH16M03X	2047 074000	STOPIT
2046 014700	T816Q02X	2046 031900	T816Q02X	2046 051900	SH16M02X	2046 065100	SH16M02X	2047 084000	APPON
2046 014800	T816Q05X	2046 032000	T816Q03X	2046 052000	SH16M03X	2046 065200	SH16M03X	2047 084016	SH16M01
2046 014900	T816Q02X	2046 032100	T816Q02X	2046 052100	SH16M02X	2046 065300	SH16M02X	2047 084116	SH16M02X
2046 015000	T816Q03X	2046 032200	T816Q04X	2046 052200	SH16M03X	2046 065400	SH16M03X	2047 124700	STOPIT
2046 015100	T816Q02X	2046 032300	T816Q02X	2046 052300	SH16M02X	2046 065500	SH16M02X	2047 152900	APPON
2046 015200	T816Q04X	2046 032400	T816Q05X	2046 052400	SH16M03X	2046 065600	SH16M03X	2047 152916	T816Q02
2046 015300	T816Q02X	2046 032500	T816Q02X	2046 052500	SH16M02X	2046 065700	SH16M02X	2047 153016	T816Q05X
2046 015400	T816Q05X	2046 032600	T816Q03X	2046 052600	SH16M03X	2046 065800	SH16M03X	2047 201700	STOPIT
2046 015500	T816Q02X	2046 032700	T816Q02X	2046 052700	SH16M02X	2046 065900	SH16M02X	2047 214800	IMSON
2046 015600	T816Q03X	2046 032800	T816Q04X	2046 052800	SH16M03X	2046 070000	SH16M03X	2047 214816	M283401
2046 015700	T816Q02X	2046 032900	T816Q02X	2046 052900	SH16M02X	2046 070100	SH16M02X	2048 043900	STOPIT
2046 015800	T816Q04X	2046 033000	T816Q05X	2046 053000	SH16M03X	2046 070200	SH16M03X	2048 050900	APPON
2046 015900	T816Q02X	2046 033100	T816Q02X	2046 053100	SH16M02X	2046 070300	SH16M02X	2048 050916	SH16M01
2046 020000	T816Q05X	2046 033200	T816Q03X	2046 053200	SH16M03X	2046 070400	SH16M03X	2048 051000	SH16M02X
2046 020100	T816Q02X	2046 033300	T816Q02X	2046 053300	SH16M02X	2046 070500	SH16M02X	2048 051100	SH16M03X
2046 020200	T816Q03X	2046 033400	T816Q04X	2046 053400	SH16M03X	2046 070600	SH16M03X	2048 051200	SH16M02X
2046 020300	T816Q02X	2046 033500	T816Q02X	2046 053500	SH16M02X	2046 070700	SH16M02X	2048 051300	SH16M03X
2046 020400	T816Q04X	2046 033600	T816Q05X	2046 053600	SH16M03X	2046 070800	SH16M03X	2048 051400	SH16M02X
2046 020500	T816Q02X	2046 033700	T816Q02X	2046 053700	SH16M02X	2046 070900	SH16M02X	2048 051500	SH16M03X
2046 020600	T816Q05X	2046 033800	T816Q03X	2046 053800	SH16M03X	2046 071000	SH16M03X	2048 051600	SH16M02X
2046 020700	T816Q02X	2046 033900	T816Q02X	2046 053900	SH16M02X	2046 071100	SH16M02X	2048 051700	SH16M03X
2046 020800	T816Q03X	2046 034000	T816Q04X	2046 054000	SH16M03X	2046 071200	SH16M03X	2048 051800	SH16M02X
2046 020900	T816Q02X	2046 034100	T816Q02X	2046 054100	SH16M02X	2046 071300	SH16M02X	2048 051900	SH16M03X
2046 021000	T816Q04X	2046 034200	T816Q05X	2046 054200	SH16M03X	2046 071400	SH16M03X	2048 052000	SH16M02X
2046 021100	T816Q02X	2046 034300	T816Q02X	2046 054300	SH16M02X	2046 071500	SH16M02X	2048 052100	SH16M03X
2046 021200	T816Q05X	2046 034400	T816Q03X	2046 054400	SH16M03X	2046 071600	SH16M03X	2048 052200	SH16M02X
2046 021300	T816Q02X	2046 034500	T816Q04X	2046 054500	SH16M02X	2046 071700	SH16M02X	2048 052300	SH16M03X
2046 021400	T816Q03X	2046 034600	T816Q02X	2046 054600	SH16M03X	2046 071800	SH16M03X	2048 052400	SH16M02X
2046 021500	T816Q02X	2046 034700	T816Q05X	2046 054700	SH16M02X	2046 071900	SH16M02X	2048 052500	SH16M03X
2046 021600	T816Q04X	2046 034800	T816Q02X	2046 054800	SH16M03X	2046 072000	SH16M03X	2048 052600	SH16M02X
2046 021700	T816Q02X	2046 034900	T816Q03X	2046 054900	SH16M02X	2046 072100	SH16M02X	2048 052700	SH16M03X
2046 021800	T816Q05X	2046 035000	T816Q02X	2046 055000	SH16M03X	2046 072200	SH16M03X	2048 052800	SH16M02X
2046 021900	T816Q02X	2046 035100	T816Q04X	2046 055100	SH16M02X	2046 072300	SH16M02X	2048 052900	SH16M03X
2046 022000	T816Q03X	2046 035200	T816Q02X	2046 055200	SH16M03X	2046 072400	SH16M03X	2048 053000	SH16M02X
2046 022100	T816Q02X	2046 035300	T816Q05X	2046 055300	SH16M02X	2046 072500	SH16M02X	2048 053100	SH16M03X
2046 022200	T816Q04X	2046 035400	T816Q02X	2046 055400	SH16M03X	2046 072600	SH16M03X	2048 053200	SH16M02X
2046 022300	T816Q02X	2046 035500	T816Q03X	2046 055500	SH16M02X	2046 072700	SH16M02X	2048 053300	SH16M03X
2046 022400	T816Q05X	2046 035600	T816Q02X	2046 055600	SH16M03X	2046 072800	SH16M03X	2048 053400	SH16M02X
2046 022500	T816Q02X	2046 035700	T816Q04X	2046 055700	SH16M02X	2046 072900	SH16M02X	2048 053500	SH16M03X
2046 022600	T816Q03X	2046 035800	T816Q02X	2046 055800	SH16M03X	2046 073000	SH16M03X	2048 053600	SH16M02X
2046 022700	T816Q02X	2046 035900	T816Q05X	2046 055900	SH16M02X	2046 073100	SH16M02X	2048 053700	SH16M03X
2046 022800	T816Q04X	2046 040000	T816Q02X	2046 060					

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2048 054500 SH16M03X	2048 071700 SH16M03X	2051 034016 M2834 01	2054 121000 SH16M02X	2054 134200 SH16M02X
2048 054600 SH16M02X	2048 071800 SH16M02X	2051 064100 STOPIT	2054 121100 SH16M03X	2054 134300 SH16M03X
2048 054700 SH16M03X	2048 071900 SH16M03X	2051 082300 IMSON	2054 121200 SH16M02X	2054 134400 SH16M02X
2048 054800 SH16M02X	2048 072000 SH16M02X	2051 082316 T816Q02	2054 121300 SH16M03X	2054 134500 SH16M03X
2048 054900 SH16M03X	2048 072100 SH16M03X	2051 135000 STOPIT	2054 121400 SH16M02X	2054 134600 SH16M02X
2048 055000 SH16M02X	2048 072200 SH16M02X	2051 151400 APPON	2054 121500 SH16M03X	2054 134700 SH16M03X
2048 055100 SH16M03X	2048 072300 SH16M03X	2051 151416 SH16M01	2054 121600 SH16M02X	2054 134800 SH16M02X
2048 055200 SH16M02X	2048 072400 SH16M02X	2051 151516 SH16M02X	2054 121700 SH16M03X	2054 134900 SH16M03X
2048 055300 SH16M03X	2048 072500 SH16M03X	2051 180000 STOPIT	2054 121800 SH16M02X	2054 135000 SH16M02X
2048 055400 SH16M02X	2048 072600 SH16M02X	2051 182400 APPON	2054 121900 SH16M03X	2054 135100 SH16M03X
2048 055500 SH16M03X	2048 072700 SH16M03X	2051 182416 SH16M01	2054 122000 SH16M02X	2054 135200 SH16M02X
2048 055600 SH16M02X	2048 072800 SH16M02X	2051 182516 SH16M02X	2054 122100 SH16M03X	2054 135300 SH16M03X
2048 055700 SH16M03X	2048 072900 SH16M03X	2051 202800 STOPIT	2054 122200 SH16M02X	2054 135400 SH16M02X
2048 055800 SH16M02X	2048 073000 SH16M02X	2051 213800 IMSON	2054 122300 SH16M03X	2054 135500 SH16M03X
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2048 060200 SH16M02X	2048 073400 SH16M02X	2052 042716 T816Q02	2054 122700 SH16M03X	2054 135900 SH16M03X
2048 060300 SH16M03X	2048 073500 SH16M03X	2052 093500 STOPIT	2054 122800 SH16M02X	2054 140000 SH16M02X
2048 060400 SH16M02X	2048 073600 SH16M02X	2052 111500 IMSON	2054 122900 SH16M03X	2054 140100 SH16M03X
2048 060500 SH16M03X	2048 073700 SH16M03X	2052 111516 T816Q02	2054 123000 SH16M02X	2054 140200 SH16M02X
2048 060600 SH16M02X	2048 073800 SH16M02X	2052 115400 STOPIT	2054 123100 SH16M03X	2054 140300 SH16M03X
2048 060700 SH16M03X	2048 073900 SH16M03X	2052 115900 APPON	2054 123200 SH16M02X	2054 140400 SH16M02X
2048 060800 SH16M02X	2048 074000 SH16M02X	2052 115916 T816Q02	2054 123300 SH16M03X	2054 140500 SH16M03X
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2048 061000 SH16M02X	2048 074200 SH16M02X	2052 155100 STOPIT	2054 123500 SH16M03X	2054 140700 SH16M03X
2048 061100 SH16M03X	2048 074300 SH16M03X	2052 173900 IMSON	2054 123600 SH16M02X	2054 140800 SH16M02X
2048 061200 SH16M02X	2048 074400 SH16M02X	2052 173916 T816Q02	2054 123700 SH16M03X	2054 140900 SH16M03X
2048 061300 SH16M03X	2048 074500 SH16M03X	2052 213900 STOPIT	2054 123800 SH16M02X	2054 141000 SH16M02X
2048 061400 SH16M02X	2048 074600 SH16M02X	2052 234800 IMSON	2054 123900 SH16M03X	2054 141100 SH16M03X
2048 061500 SH16M03X	2048 074700 SH16M03X	2052 234816 M2834 01	2054 124000 SH16M02X	2054 141200 SH16M02X
2048 061600 SH16M02X	2048 074800 SH16M02X	2053 003000 STOPIT	2054 124100 SH16M03X	2054 141300 SH16M03X
2048 061700 SH16M03X	2048 074900 SH16M03X	2053 012700 IMSON	2054 124200 SH16M02X	2054 141400 SH16M02X
2048 061800 SH16M02X	2048 075000 SH16M02X	2053 012716 M2834 01	2054 124300 SH16M03X	2054 141600 SH16M03X
2048 061900 SH16M03X	2048 075100 SH16M03X	2053 025500 STOPIT	2054 124400 SH16M02X	2054 141700 STOPIT
2048 062000 SH16M02X	2048 075200 SH16M02X	2053 033500 IMSON	2054 124500 SH16M03X	2054 142500 APPON
2048 062100 SH16M03X	2048 075300 SH16M03X	2053 033516 M2834 01	2054 124600 SH16M02X	2054 142516 SS04P01
2048 062200 SH16M02X	2048 075400 SH16M02X	2053 063600 STOPIT	2054 124700 SH16M03X	2054 165900 STOPIT
2048 062300 SH16M03X	2048 075600 SH16M03X	2053 150900 APPON	2054 124800 SH16M02X	2054 182900 APPON
2048 062400 SH16M02X	2048 075700 STOPIT	2053 150916 SH16M01	2054 124900 SH16M03X	2054 182916 SH16M01
2048 062500 SH16M03X	2048 113600 IMSON	2053 151016 SH16M02X	2054 125000 SH16M02X	2054 183016 SH16M02X
2048 062600 SH16M02X	2048 113616 HI04N01	2053 175500 STOPIT	2054 125100 SH16M03X	2054 202000 STOPIT
2048 062700 SH16M03X	2048 113700 HI04N01X	2053 181900 APPON	2054 125200 SH16M02X	2054 215500 APPON
2048 062800 SH16M02X	2048 113800 HI04N03X	2053 181916 SH16M01	2054 125300 SH16M03X	2054 215516 SH16M01
2048 062900 SH16M03X	2048 113900 HI04N01X	2053 182016 SH16M02X	2054 125400 SH16M02X	2054 215616 SH16M02X
2048 063000 SH16M02X	2048 114000 HI04N03X	2053 202300 STOPIT	2054 125500 SH16M03X	2054 233700 STOPIT
2048 063100 SH16M03X	2048 114100 HI04N01X	2053 215400 APPON	2054 125600 SH16M02X	2055 080700 IMSON
2048 063200 SH16M02X	2048 114200 HI04N03X	2053 215416 SH16M01	2054 125700 SH16M03X	2055 080716 T816Q02
2048 063300 SH16M03X	2048 114300 HI04N01X	2053 215516 SH16M02X	2054 125800 SH16M02X	2055 115000 STOPIT
2048 063400 SH16M02X	2048 114400 HI04N03X	2054 031000 STOPIT	2054 125900 SH16M03X	2055 150000 APPON
2048 063500 SH16M03X	2048 114500 HI04N01X	2054 112900 APPON	2054 130000 SH16M02X	2055 150016 SH16M01
2048 063600 SH16M02X	2048 114600 HI04N03X	2054 112916 SH16M01	2054 130100 SH16M03X	2055 150116 SH16M02X
2048 063700 SH16M03X	2048 114700 T816Q02	2054 113000 SH16M02X	2054 130200 SH16M02X	2055 163000 STOPIT
2048 063800 SH16M02X	2048 155500 STOPIT	2054 113100 SH16M03X	2054 130300 SH16M03X	2055 170500 APPON
2048 063900 SH16M03X	2048 184800 APPON	2054 113200 SH16M02X	2054 130400 SH16M02X	2055 170516 SH16M01
2048 064000 SH16M02X	2048 184816 T816Q02	2054 113300 SH16M03X	2054 130500 SH16M03X	2055 170616 SH16M02X
2048 064100 SH16M03X	2048 184916 T816Q05X	2054 113400 SH16M02X	2054 130600 SH16M02X	2055 202000 STOPIT
2048 064200 SH16M02X	2048 235100 STOPIT	2054 113500 SH16M03X	2054 130700 SH16M03X	2055 214900 APPON
2048 064300 SH16M03X	2049 013600 IMSON	2054 113600 SH16M02X	2054 130800 SH16M02X	2055 214916 SH16M01
2048 064400 SH16M02X	2049 013616 T816Q02	2054 113700 SH16M03X	2054 130900 SH16M03X	2055 215016 SH16M02X
2048 064500 SH16M03X	2049 073500 STOPIT	2054 113800 SH16M02X	2054 131000 SH16M02X	2056 030500 STOPIT
2048 064600 SH16M02X	2049 083500 APPON	2054 113900 SH16M03X	2054 131100 SH16M03X	2056 112400 APPON
2048 064700 SH16M03X	2049 083516 SH16M01	2054 114000 SH16M02X	2054 131200 SH16M02X	2056 112416 SH16M01
2048 064800 SH16M02X	2049 083616 SH16M02X	2054 114100 SH16M03X	2054 131300 SH16M03X	2056 112500 SH16M02X
2048 064900 SH16M03X	2049 124200 STOPIT	2054 114200 SH16M02X	2054 131400 SH16M02X	2056 112600 SH16M03X
2048 065000 SH16M02X	2049 152400 APPON	2054 114300 SH16M03X	2054 131500 SH16M03X	2056 112700 SH16M02X
2048 065100 SH16M03X	2049 152416 T816Q02	2054 114400 SH16M02X	2054 131600 SH16M02X	2056 112800 SH16M03X
2048 065200 SH16M02X	2049 152516 T816Q05X	2054 114500 SH16M03X	2054 131700 SH16M03X	2056 112900 SH16M02X
2048 065300 SH16M03X	2049 201200 STOPIT	2054 114600 SH16M02X	2054 131800 SH16M02X	2056 113000 SH16M03X
2048 065400 SH16M02X	2049 214300 IMSON	2054 114700 SH16M03X	2054 131900 SH16M03X	2056 113100 SH16M02X
2048 065500 SH16M03X	2049 214316 T816Q02	2054 114800 SH16M02X	2054 132000 SH16M02X	2056 113200 SH16M03X
2048 065600 SH16M02X	2050 030200 STOPIT	2054 114900 SH16M03X	2054 132100 SH16M03X	2056 113300 SH16M02X
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2048 070000 SH16M02X	2050 112000 IMSON	2054 115300 SH16M03X	2054 132500 SH16M03X	2056 113700 SH16M02X
2048 070100 SH16M03X	2050 112016 T816Q02	2054 115400 SH16M02X	2054 132600 SH16M02X	2056 113800 SH16M03X
2048 070200 SH16M02X	2050 115900 STOPIT	2054 115500 SH16M03X	2054 132700 SH16M03X	2056 113900 SH16M02X
2048 070300 SH16M03X	2050 120400 APPON	2054 115600 SH16M02X	2054 132800 SH16M02X	2056 114000 SH16M03X
2048 070400 SH16M02X	2050 120416 T816Q02	2054 115700 SH16M03X	2054 132900 SH16M03X	2056 114100 SH16M02X
2048 070500 SH16M03X	2050 120516 T816Q05X	2054 115800 SH16M02X	2054 133000 SH16M02X	2056 114200 SH16M03X
2048 070600 SH16M02X	2050 155600 STOPIT	2054 115900 SH16M03X	2054 133100 SH16M03X	2056 114300 SH16M02X
2048 070700 SH16M03X	2050 174400 IMSON	2054 120000 SH16M02X	2054 133200 SH16M02X	2056 114400 SH16M03X
2048 070800 SH16M02X	2050 174416 T816Q02	2054 120100 SH16M03X	2054 133300 SH16M03X	2056 114500 SH16M02X
2048 070900 SH16M03X	2050 214400 STOPIT	2054 120200 SH16M02X	2054 133400 SH16M02X	2056 114600 SH16M03X
2048 071000 SH16M02X	2050 235300 IMSON	2054 120300 SH16M03X	2054 133500 SH16M03X	2056 114700 SH16M02X
2048 071100 SH16M03X	2050 235316 M2834 01	2054 120400 SH16M02X	2054 133600 SH16M02X	2056 114800 SH16M03X
2048 071200 SH16M02X	2051 003500 STOPIT	2054 120500 SH16M03X	2054 133700 SH16M03X	2056 114900 SH16M02X
2048 071300 SH16M03X	2051 013200 IMSON	2054 120600 SH16M02X	2054 133800 SH16M02X	2056 115000 SH16M03X
2048 071400 SH16M02X	2051 013216 M2834 01	2054 120700 SH16M03X	2054 133900 SH16M03X	2056 115100 SH16M02X
2048 071500 SH16M03X	2051 030000 STOPIT	2054 120800 SH16M02X	2054 134000 SH16M02X	2056 115200 SH16M03X
2048 071600 SH16M02X	2051 034000 IMSON	2054 120900 SH16M03X	2054 134100 SH16M03X	2056 115300 SH16M02X

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2056 115400 SH16M03X	2056 132600 SH16M03X	2059 231400 STOPIT	2065 075000 IMSON	2069 143116 T816Q02
2056 115500 SH16M02X	2056 132700 SH16M02X	2060 091400 IMSON	2065 075016 T816Q02	2069 154100 STOPIT
2056 115600 SH16M03X	2056 132800 SH16M03X	2060 091416 M2834 01	2065 092000 STOPIT	2069 160000 APPON
2056 115700 SH16M02X	2056 132900 SH16M02X	2060 130000 STOPIT	2065 093200 APPON	2069 160016 T816Q02
2056 115800 SH16M03X	2056 133000 SH16M03X	2060 153800 IMSON	2065 093216 SS04P01	2069 160116 T816Q05X
2056 115900 SH16M02X	2056 133100 SH16M02X	2060 153816 M2834 01	2065 130200 STOPIT	2069 185000 STOPIT
2056 120000 SH16M03X	2056 133200 SH16M03X	2060 204300 STOPIT	2065 144400 APPON	2069 212600 APPON
2056 120100 SH16M02X	2056 133300 SH16M02X	2060 231100 IMSON	2065 144416 SS04P01	2069 212616 T816Q02
2056 120200 SH16M03X	2056 133400 SH16M03X	2060 231116 T816Q02	2065 161400 STOPIT	2069 212716 T816Q05X
2056 120300 SH16M02X	2056 133500 SH16M02X	2061 023400 STOPIT	2065 170000 IMSON	2069 224000 STOPIT
2056 120400 SH16M03X	2056 133600 SH16M03X	2061 035900 IMSON	2065 170016 T816Q02	2070 004100 IMSON
2056 120500 SH16M02X	2056 133700 SH16M02X	2061 035916 T816Q02	2065 170016 T816Q02	2070 004116 M2834 01
2056 120600 SH16M03X	2056 133800 SH16M03X	2061 071400 STOPIT	2065 190500 STOPIT	2070 032600 STOPIT
2056 120700 SH16M02X	2056 133900 SH16M02X	2061 100000 APPON	2065 212500 IMSON	2070 040500 IMSON
2056 120800 SH16M03X	2056 134000 SH16M03X	2061 100016 T816Q02	2065 212516 T816Q02	2070 040516 M2834 01
2056 120900 SH16M02X	2056 134100 SH16M02X	2061 100116 T816Q05X	2065 230500 STOPIT	2070 053000 STOPIT
2056 121000 SH16M03X	2056 134200 SH16M03X	2061 131300 STOPIT	2066 004500 IMSON	2070 073100 IMSON
2056 121100 SH16M02X	2056 134300 SH16M02X	2061 144700 APPON	2066 004516 M2834 01	2070 073116 T816Q02
2056 121200 SH16M03X	2056 134400 SH16M03X	2061 144716 T816Q02	2066 032900 STOPIT	2070 092700 STOPIT
2056 121300 SH16M02X	2056 134500 SH16M02X	2061 144816 T816Q05X	2066 041900 IMSON	2070 103000 IMSON
2056 121400 SH16M03X	2056 134600 SH16M03X	2061 161700 STOPIT	2066 041916 M2834 01	2070 103016 T816Q02
2056 121500 SH16M02X	2056 134700 SH16M02X	2061 170000 APPON	2066 055100 STOPIT	2070 121700 STOPIT
2056 121600 SH16M03X	2056 134800 SH16M03X	2061 170016 SH16M01	2066 074200 IMSON	2070 123200 IMSON
2056 121700 SH16M02X	2056 134900 SH16M02X	2061 170116 SH16M02X	2066 074216 T816Q02	2070 123216 T816Q02
2056 121800 SH16M03X	2056 135000 SH16M03X	2061 190700 STOPIT	2066 093900 STOPIT	2070 161700 STOPIT
2056 121900 SH16M02X	2056 135100 SH16M02X	2061 213800 APPON	2066 111000 IMSON	2070 174000 IMSON
2056 122000 SH16M03X	2056 135200 SH16M03X	2061 213816 SH16M01	2066 111016 T816Q02	2070 174016 T816Q02
2056 122100 SH16M02X	2056 135300 SH16M02X	2061 213916 SH16M02X	2066 124800 STOPIT	2070 191000 STOPIT
2056 122200 SH16M03X	2056 135400 SH16M03X	2061 230800 STOPIT	2066 130000 APPON	2070 191016 T816Q02
2056 122300 SH16M02X	2056 135500 SH16M02X	2062 004500 IMSON	2066 130016 SS04P01	2070 193000 APPON
2056 122400 SH16M03X	2056 135600 SH16M03X	2062 004516 T816Q02	2066 162700 STOPIT	2070 193016 SH16M01
2056 122500 SH16M02X	2056 135700 SH16M02X	2062 073600 STOPIT	2066 180900 APPON	2070 193116 SH16M02X
2056 122600 SH16M03X	2056 135800 SH16M03X	2062 153300 IMSON	2066 180916 SS04P01	2070 230200 STOPIT
2056 122700 SH16M02X	2056 135900 SH16M02X	2062 153316 M2834 01	2066 193900 STOPIT	2071 004000 APPON
2056 122800 SH16M03X	2056 140000 SH16M03X	2062 203800 STOPIT	2066 195100 APPON	2071 004016 SH16M01
2056 122900 SH16M02X	2056 140100 SH16M02X	2062 203800 STOPIT	2066 195116 SH16M01	2071 004116 SH16M02X
2056 123000 SH16M03X	2056 140200 SH16M03X	2062 212000 IMSON	2066 195216 SH16M02X	2071 015900 STOPIT
2056 123100 SH16M02X	2056 140300 SH16M02X	2062 212016 T816Q02	2066 231200 STOPIT	2071 024100 IMSON
2056 123200 SH16M03X	2056 140400 SH16M03X	2062 224000 STOPIT	2067 005300 APPON	2071 024116 T816Q02
2056 123300 SH16M02X	2056 140500 SH16M02X	2063 005000 IMSON	2067 005316 SH16M01	2071 055200 STOPIT
2056 123400 SH16M03X	2056 140600 SH16M03X	2063 005016 T816Q02	2067 005416 SH16M02X	2071 073000 IMSON
2056 123500 SH16M02X	2056 140700 SH16M02X	2063 022900 STOPIT	2067 023000 STOPIT	2071 073016 T816Q02
2056 123600 SH16M03X	2056 140800 SH16M03X	2063 035400 IMSON	2067 032000 IMSON	2071 085000 STOPIT
2056 123700 SH16M02X	2056 140900 SH16M02X	2063 035416 T816Q02	2067 032016 T816Q02	2071 103000 IMSON
2056 123800 SH16M03X	2056 141000 SH16M03X	2063 070900 STOPIT	2067 032016 T816Q02	2071 103016 T816Q02
2056 123900 SH16M02X	2056 141100 SH16M02X	2063 075100 IMSON	2067 065700 STOPIT	2071 154000 STOPIT
2056 124000 SH16M03X	2056 141200 STOPIT	2063 075116 T816Q02	2067 074500 IMSON	2071 172000 IMSON
2056 124100 SH16M02X	2056 142000 APPON	2063 092100 STOPIT	2067 074516 T816Q02	2071 172016 T816Q02
2056 124200 SH16M03X	2056 142016 SS04P01	2063 095500 APPON	2067 091500 STOPIT	2071 223000 STOPIT
2056 124300 SH16M02X	2056 165400 STOPIT	2063 095516 T816Q02	2067 092700 APPON	2071 230000 APPON
2056 124400 SH16M03X	2056 182416 SH16M01	2063 095516 T816Q05X	2067 092716 SS04P01	2071 230016 T816Q02
2056 124500 SH16M02X	2056 182516 SH16M02X	2063 130800 STOPIT	2067 125700 STOPIT	2071 230116 T816Q05X
2056 124600 SH16M03X	2056 201500 STOPIT	2063 144200 APPON	2067 143900 APPON	2072 022500 STOPIT
2056 124700 SH16M02X	2056 215000 APPON	2063 144216 T816Q02	2067 143916 SS04P01	2072 033200 IMSON
2056 124800 SH16M03X	2056 215016 SH16M01	2063 144316 T816Q05X	2067 160900 STOPIT	2072 033216 T816Q02
2056 124900 SH16M02X	2056 215116 SH16M02X	2063 161200 STOPIT	2067 165500 IMSON	2072 051000 STOPIT
2056 125000 SH16M03X	2056 233200 STOPIT	2063 165516 SH16M01	2067 165516 T816Q02	2072 054000 APPON
2056 125100 SH16M02X	2057 011200 IMSON	2063 165616 SH16M02X	2067 190000 STOPIT	2072 054016 SS04P01
2056 125200 SH16M03X	2057 011216 T816Q02	2063 180000 STOPIT	2067 212000 IMSON	2072 091600 STOPIT
2056 125300 SH16M02X	2057 062700 STOPIT	2063 202000 APPON	2067 212016 T816Q02	2072 105300 APPON
2056 125400 SH16M03X	2057 080200 IMSON	2063 202016 SH16M01	2067 235000 IMSON	2072 105316 SH16M01
2056 125500 SH16M02X	2057 080216 T816Q02	2063 202016 SH16M02X	2067 235016 T816Q02	2072 105400 SH16M02X
2056 125600 SH16M03X	2057 114500 STOPIT	2063 230300 STOPIT	2068 023500 STOPIT	2072 105500 SH16M03X
2056 125700 SH16M02X	2057 145500 APPON	2064 005000 IMSON	2068 041500 IMSON	2072 105600 SH16M02X
2056 125800 SH16M03X	2057 145516 SH16M01	2064 005016 M2834 01	2068 041516 T816Q02	2072 105700 SH16M03X
2056 125900 SH16M02X	2057 145616 SH16M02X	2064 033400 STOPIT	2068 054000 STOPIT	2072 105800 SH16M02X
2056 130000 SH16M03X	2057 162500 STOPIT	2064 042400 IMSON	2068 055600 APPON	2072 105900 SH16M03X
2056 130100 SH16M02X	2057 170000 APPON	2064 042416 M2834 01	2068 055616 T816Q02	2072 110000 SH16M02X
2056 130200 SH16M03X	2057 170016 SH16M01	2064 055600 STOPIT	2068 055716 T816Q05X	2072 110100 SH16M03X
2056 130300 SH16M02X	2057 170116 T816Q02	2064 074700 IMSON	2068 092600 STOPIT	2072 110200 SH16M02X
2056 130400 SH16M03X	2057 214700 IMSON	2064 074716 T816Q02	2068 105000 APPON	2072 110300 SH16M03X
2056 130500 SH16M02X	2057 214716 T816Q02	2064 094400 STOPIT	2068 105016 T816Q02	2072 110400 SH16M02X
2056 130600 SH16M03X	2057 232000 STOPIT	2064 111500 IMSON	2068 105116 T816Q05X	2072 110500 SH16M03X
2056 130700 SH16M02X	2058 092600 IMSON	2064 111516 T816Q02	2068 123200 STOPIT	2072 110600 SH16M02X
2056 130800 SH16M03X	2058 092616 M2834 01	2064 125300 STOPIT	2068 145200 IMSON	2072 110700 SH16M03X
2056 130900 SH16M02X	2058 104400 STOPIT	2064 130500 APPON	2068 145216 T816Q02	2072 110800 SH16M02X
2056 131000 SH16M03X	2058 112900 APPON	2064 130516 SS04P01	2068 162300 STOPIT	2072 110900 SH16M03X
2056 131100 SH16M02X	2058 112916 SS04P01	2064 163200 STOPIT	2068 170000 IMSON	2072 111000 SH16M02X
2056 131200 SH16M03X	2058 164900 STOPIT	2064 181400 APPON	2068 170016 T816Q02	2072 111100 SH16M03X
2056 131300 SH16M02X	2058 182000 APPON	2064 181416 SS04P01	2068 191400 STOPIT	2072 111200 SH16M02X
2056 131400 SH16M03X	2058 182016 T816Q02	2064 194400 STOPIT	2068 192600 IMSON	2072 111300 SH16M03X
2056 131500 SH16M02X	2058 182116 T816Q05X	2064 195600 APPON	2068 192616 T816Q02	2072 111400 SH16M02X
2056 131600 SH16M03X	2058 233200 STOPIT	2064 195616 SH16M01	2068 213000 STOPIT	2072 111500 SH16M03X
2056 131700 SH16M02X	2059 080200 IMSON	2064 195716 SH16M02X	2069 005000 IMSON	2072 111600 SH16M02X
2056 131800 SH16M03X	2059 080216 T816Q02	2064 231700 STOPIT	2069 005016 T816Q02	2072 111700 SH16M03X
2056 131900 SH16M02X	2059 113000 STOPIT	2065 005800 APPON	2069 021000 STOPIT	2072 111800 SH16M02X
2056 132000 SH16M03X	2059 145000 APPON	2065 005816 SH16M01	2069 035000 IMSON	2072 111900 SH16M03X
2056 132100 SH16M02X	2059 145016 SS04P01	2065 005916 SH16M02X	2069 035016 M2834 01	2072 112000 SH16M02X
2056 132200 SH16M03X	2059 184700 STOPIT	2065 023500 STOPIT	2069 090200 STOPIT	2072 112100 SH16M03X
2056 132300 SH16M02X	2059 214400 IMSON	2065 032500 IMSON	2069 092600 IMSON	2072 112200 SH16M02X
2056 132400 SH16M03X	2059 214416 M2834 01	2065 032516 T816Q02	2069 092616 T816Q02	2072 112300 SH16M03X
2056 132500 SH16M02X		2065 070200 STOPIT	2069 143100 IMSON	2072 112400 SH16M02X
				2072 112500 SH16M03X

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2072	112600	SH16M02X	2072	125800	SH16M02X	2073	081300	SH16M02X	2073	094500	SH16M02X	2073	131600	T816Q03X
2072	112700	SH16M03X	2072	125900	SH16M03X	2073	081400	SH16M03X	2073	094600	SH16M03X	2073	131700	T816Q02X
2072	112800	SH16M02X	2072	130000	SH16M02X	2073	081500	SH16M02X	2073	094700	SH16M02X	2073	131800	T816Q04X
2072	112900	SH16M03X	2072	130100	SH16M03X	2073	081600	SH16M03X	2073	094800	SH16M03X	2073	131900	T816Q02X
2072	113000	SH16M02X	2072	130200	SH16M02X	2073	081700	SH16M02X	2073	094900	SH16M02X	2073	132000	T816Q05X
2072	113100	SH16M03X	2072	130300	SH16M03X	2073	081800	SH16M03X	2073	095000	SH16M03X	2073	132100	T816Q02X
2072	113200	SH16M02X	2072	130400	SH16M02X	2073	081900	SH16M02X	2073	095100	SH16M02X	2073	132200	T816Q03X
2072	113300	SH16M03X	2072	130500	SH16M03X	2073	082000	SH16M03X	2073	095200	SH16M03X	2073	132300	T816Q02X
2072	113400	SH16M02X	2072	130600	SH16M02X	2073	082100	SH16M02X	2073	095300	SH16M02X	2073	132400	T816Q04X
2072	113500	SH16M03X	2072	130700	SH16M03X	2073	082200	SH16M03X	2073	095400	SH16M03X	2073	132500	T816Q02X
2072	113600	SH16M02X	2072	130800	SH16M02X	2073	082300	SH16M02X	2073	095500	SH16M02X	2073	132600	T816Q05X
2072	113700	SH16M03X	2072	130900	SH16M03X	2073	082400	SH16M03X	2073	095600	SH16M03X	2073	132700	T816Q02X
2072	113800	SH16M02X	2072	131000	SH16M02X	2073	082500	SH16M02X	2073	095700	SH16M02X	2073	132800	T816Q03X
2072	113900	SH16M03X	2072	131100	SH16M03X	2073	082600	SH16M03X	2073	095800	SH16M03X	2073	132900	T816Q02X
2072	114000	SH16M02X	2072	131200	SH16M02X	2073	082700	SH16M02X	2073	095900	SH16M02X	2073	133000	T816Q04X
2072	114100	SH16M03X	2072	131300	SH16M03X	2073	082800	SH16M03X	2073	100000	SH16M03X	2073	133100	T816Q02X
2072	114200	SH16M02X	2072	131400	SH16M02X	2073	082900	SH16M02X	2073	100100	SH16M02X	2073	133200	T816Q05X
2072	114300	SH16M03X	2072	131500	SH16M03X	2073	083000	SH16M03X	2073	100200	SH16M03X	2073	133300	T816Q02X
2072	114400	SH16M02X	2072	131600	SH16M02X	2073	083100	SH16M02X	2073	100300	SH16M02X	2073	133400	T816Q03X
2072	114500	SH16M03X	2072	131700	SH16M03X	2073	083200	SH16M03X	2073	100400	SH16M03X	2073	133500	T816Q02X
2072	114600	SH16M02X	2072	131800	SH16M02X	2073	083300	SH16M02X	2073	100500	SH16M02X	2073	133600	T816Q04X
2072	114700	SH16M03X	2072	131900	SH16M03X	2073	083400	SH16M03X	2073	100600	SH16M03X	2073	133700	T816Q02X
2072	114800	SH16M02X	2072	132000	SH16M02X	2073	083500	SH16M02X	2073	100700	SH16M02X	2073	133800	T816Q05X
2072	114900	SH16M03X	2072	132100	SH16M03X	2073	083600	SH16M03X	2073	100800	SH16M03X	2073	133900	T816Q02X
2072	115000	SH16M02X	2072	132200	SH16M02X	2073	083700	SH16M02X	2073	100900	SH16M02X	2073	134000	T816Q03

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2073	144800	T816Q04X	2073	162100	T816Q05X	2073	175300	T816Q03X	2074	021000	T816Q02X	2074	034200	T816Q02X
2073	144900	T816Q02X	2073	162200	T816Q02X	2073	175400	T816Q02X	2074	021100	T816Q04X	2074	034300	T816Q05X
2073	145000	T816Q05X	2073	162300	T816Q03X	2073	175500	T816Q04X	2074	021200	T816Q02X	2074	034400	T816Q02X
2073	145100	T816Q02X	2073	162400	T816Q02X	2073	175600	T816Q02X	2074	021300	T816Q05X	2074	034500	T816Q03X
2073	145200	T816Q03X	2073	162500	T816Q04X	2073	175700	T816Q05X	2074	021400	T816Q02X	2074	034600	T816Q02X
2073	145300	T816Q02X	2073	162600	T816Q02X	2073	175800	T816Q02X	2074	021500	T816Q03X	2074	034700	T816Q04X
2073	145400	T816Q04X	2073	162700	T816Q05X	2073	175900	T816Q03X	2074	021600	T816Q02X	2074	034800	T816Q02X
2073	145500	T816Q02X	2073	162800	T816Q02X	2073	180000	T816Q02X	2074	021700	T816Q04X	2074	034900	T816Q05X
2073	145600	T816Q05X	2073	162900	T816Q03X	2073	180100	T816Q04X	2074	021800	T816Q02X	2074	035000	T816Q02X
2073	145700	T816Q02X	2073	163000	T816Q02X	2073	180200	T816Q02X	2074	021900	T816Q05X	2074	035100	T816Q03X
2073	145800	T816Q03X	2073	163100	T816Q04X	2073	180300	T816Q05X	2074	022000	T816Q02X	2074	035200	T816Q02X
2073	145900	T816Q02X	2073	163200	T816Q02X	2073	180400	T816Q02X	2074	022100	T816Q03X	2074	035300	T816Q04X
2073	150000	T816Q04X	2073	163300	T816Q05X	2073	180500	T816Q03X	2074	022200	T816Q02X	2074	035400	T816Q02X
2073	150100	T816Q02X	2073	163400	T816Q02X	2073	180600	T816Q02X	2074	022300	T816Q04X	2074	035500	T816Q05X
2073	150200	T816Q05X	2073	163500	T816Q03X	2073	180700	T816Q04X	2074	022400	T816Q02X	2074	035600	T816Q02X
2073	150300	T816Q02X	2073	163600	T816Q02X	2073	180800	T816Q02X	2074	022500	T816Q05X	2074	035700	T816Q03X
2073	150400	T816Q03X	2073	163700	T816Q04X	2073	180900	T816Q05X	2074	022600	T816Q02X	2074	035800	T816Q02X
2073	150500	T816Q02X	2073	163800	T816Q02X	2073	181000	T816Q02X	2074	022700	T816Q03X	2074	035900	T816Q04X
2073	150700	T816Q04X	2073	163900	T816Q05X	2073	181100	T816Q03X	2074	022800	T816Q02X	2074	040000	T816Q02X
2073	150800	T816Q02X	2073	164000	T816Q02X	2073	181200	T816Q02X	2074	022900	T816Q04X	2074	040100	T816Q05X
2073	150900	T816Q05X	2073	164100	T816Q03X	2073	181300	T816Q04X	2074	023000	T816Q02X	2074	040200	T816Q02X
2073	151000	T816Q02X	2073	164200	T816Q02X	2073	181400	T816Q02X	2074	023100	T816Q05X	2074	040300	T816Q03X
2073	151100	T816Q03X	2073	164300	T816Q04X	2073	181500	T816Q05X	2074	023200	T816Q02X	2074	040400	T816Q02X
2073	151200	T816Q02X	2073	164400	T816Q02X	2073	181600	T816Q02X	2074	023300	T816Q03X	2074	040500	T816Q04X
2073	151300	T816Q04X	2073	164500	T816Q05X	2073	181700	T816Q03X	2074	023400	T816Q02X	2074	040600	T816Q02

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2074	051500	T816Q02X	2074	064700	T816Q02X	2074	081900	T816Q02X	2079	003300	APPON	2080	121500	SH16M02X
2074	051600	T816Q03X	2074	064800	T816Q04X	2074	082000	T816Q05X	2079	003316	SH16M01	2080	121600	SH16M03X
2074	051700	T816Q02X	2074	064900	T816Q02X	2074	082100	T816Q02X	2079	003416	SH16M02X	2080	121700	SH16M02X
2074	051800	T816Q04X	2074	065000	T816Q05X	2074	082200	T816Q03X	2079	053700	STOPI T	2080	121800	SH16M03X
2074	051900	T816Q02X	2074	065100	T816Q02X	2074	082300	T816Q02X	2079	063900	IMSON	2080	121900	SH16M02X
2074	052000	T816Q05X	2074	065200	T816Q03X	2074	082400	T816Q04X	2079	063916	T816Q02	2080	122000	SH16M03X
2074	052100	T816Q02X	2074	065300	T816Q02X	2074	082500	T816Q02X	2079	124300	STOPI T	2080	122100	SH16M02X
2074	052200	T816Q03X	2074	065400	T816Q04X	2074	082600	T816Q05X	2079	132800	IMSON	2080	122200	SH16M03X
2074	052300	T816Q02X	2074	065500	T816Q02X	2074	082700	T816Q02X	2079	132816	M2834 01	2080	122300	SH16M02X
2074	052400	T816Q04X	2074	065600	T816Q05X	2074	082800	T816Q03X	2079	202400	STOPI T	2080	122400	SH16M03X
2074	052500	T816Q02X	2074	065700	T816Q02X	2074	082900	T816Q02X	2079	205600	IMSON	2080	122500	SH16M02X
2074	052600	T816Q05X	2074	065800	T816Q03X	2074	083000	T816Q04X	2079	205616	T816Q02	2080	122600	SH16M03X
2074	052700	T816Q02X	2074	065900	T816Q02X	2074	083100	T816Q02X	2080	020800	STOPI T	2080	122700	SH16M02X
2074	052800	T816Q03X	2074	070000	T816Q04X	2074	083200	T816Q05X	2080	033500	IMSON	2080	122800	SH16M03X
2074	052900	T816Q02X	2074	070100	T816Q02X	2074	083300	T816Q02X	2080	033516	T816Q02	2080	122900	SH16M02X
2074	053000	T816Q04X	2074	070200	T816Q05X	2074	083400	T816Q03X	2080	102600	STOPI T	2080	123000	SH16M03X
2074	053100	T816Q02X	2074	070300	T816Q02X	2074	083500	T816Q02X	2080	110000	APPON	2080	123100	SH16M02X
2074	053200	T816Q05X	2074	070400	T816Q03X	2074	083600	T816Q04X	2080	110016	SH16M01	2080	123200	SH16M03X
2074	053300	T816Q02X	2074	070500	T816Q02X	2074	083700	T816Q02X	2080	110100	SH16M02X	2080	123300	SH16M02X
2074	053400	T816Q03X	2074	070600	T816Q04X	2074	083800	T816Q05X	2080	110200	SH16M03X	2080	123400	SH16M03X
2074	053500	T816Q02X	2074	070700	T816Q02X	2074	083900	T816Q02X	2080	110300	SH16M02X	2080	123500	SH16M02X
2074	053600	T816Q04X	2074	070800	T816Q05X	2074	084000	T816Q03X	2080	110400	SH16M03X	2080	123600	SH16M03X
2074	053700	T816Q02X	2074	070900	T816Q02X	2074	084100	T816Q02X	2080	110500	SH16M02X	2080	123700	SH16M02X
2074	053800	T816Q05X	2074	071000	T816Q03X	2074	084200	T816Q04X	2080	110600	SH16M03X	2080	123800	SH16M03X
2074	053900	T816Q02X	2074	071100	T816Q02X	2074	084300	T816Q02X	2080	110700	SH16M02X	2080	123900	SH16M02X
2074	054000	T816Q03X	2074	071200	T816Q04X	2074	084400	T816Q05X	2080	110800	SH16M03X	2080	124000	SH16M03X
2074	054100	T816Q02X	2074	071300	T816Q02X	2074	084500	T816Q02X	2080	110900	SH16M02X	2080	124100	SH16M02X
2074	054200	T816Q04X	2074	071400	T816Q05X	2074	084600	T816Q03X	2080	111000	SH16M03X	2080	124200	SH16M03X
2074	054300	T816Q02X	2074	071500	T816Q02X	2074	084700	T816Q02X	2080	111100	SH16M02X	2080	124300	SH16M02X
2074	054400	T816Q05X	2074	071600	T816Q03X	2074	084800	T816Q04X	2080	111200	SH16M03X	2080	124400	SH16M03X
2074	054500	T816Q02X	2074	071700	T816Q02X	2074	084900	T816Q02X	2080	111300	SH16M02X	2080	124500	SH16M02X
2074	054600	T816Q03X	2074	071800	T816Q04X	2074	085000	T816Q05X	2080	111400	SH16M03X	2080	124600	SH16M03X
2074	054700	T816Q02X	2074	071900	T816Q02X	2074	085100	T816Q02X	2080	111500	SH16M02X	2080	124700	SH16M02X
2074	054800	T816Q04X	2074	072000	T816Q05X	2074	085200	STOPI T	2080	111600	SH16M03X	2080	124800	SH16M03X
2074	054900	T816Q02X	2074	072100	T816Q02X	2074	103000	APPON	2080	111700	SH16M02X	2080	124900	SH16M02X
2074	055000	T816Q05X	2074	072200	T816Q03X	2074	103016	SH16M01	2080	111800	SH16M03X	2080	125000	SH16M03X
2074	055100	T816Q02X	2074	072300	T816Q02X	2074	103116	SH16M02X	2080	111900	SH16M02X	2080	125100	SH16M02X
2074	055200	T816Q03X	2074	072400	T816Q04X	2074	151000	STOPI T	2080	112000	SH16M03X	2080	125200	SH16M03X
2074	055300	T816Q02X	2074	072500	T816Q02X	2074	165000	APPON	2080	112100	SH16M02X	2080	125300	SH16M02X
2074	055400	T816Q04X	2074	072600	T816Q05X	2074	165016	T816Q02	2080	112200	SH16M03X	2080	125400	SH16M03X
2074	055500	T816Q02X	2074	072700	T816Q02X	2074	165116	T816Q05X	2080	112300	SH16M02X	2080	125500	SH16M02X
2074	055600	T816Q05X	2074	072800	T816Q03X	2074	212000	STOPI T	2080	112400	SH16M03X	2080	125600	SH16M03X
2074	055700	T816Q02X	2074	072900	T816Q02X	2075	004700	IMSON	2080	112500	SH16M02X	2080	125700	SH16M02X
2074	055800	T816Q03X	2074	073000	T816Q04X	2075	004716	T816Q02	2080	112600	SH16M03X	2080	125800	SH16M03X
2074	055900	T816Q02X	2074	073100	T816Q02X	2075	035600	STOPI T	2080	112700	SH16M02X	2080	125900	SH16M02X
2074	060000	T816Q04X	2074	073200	T816Q05X	2075	051600	IMSON	2080	112800	SH16M03X	2080	130000	SH16M03X
2074	060100	T816Q02X	2074	073300	T816Q02X	2075	051616	M2834 01	2080	112900	SH16M02X	2080	130100	SH16M02X
2074	060200	T816Q05X	2074	073400	T816Q03X	2075	063500	STOPI T	2080	113000	SH16M03X	2080	130200	SH16M03X
2074	060300	T816Q02X	2074	073500	T816Q02X	2075	074000	IMSON	2080	113100	SH16M02X	2080	130300	SH16M02X
2074	060400	T816Q03X	2074	073600	T816Q04X	2075	074016	T816Q02	2080	113200	SH16M03X	2080	130400	SH16M03X
2074	060500	T816Q02X	2074	073700	T816Q02X	2075	143100	STOPI T	2080	113300	SH16M02X	2080	130500	SH16M02X
2074	060600	T816Q04X	2074	073800	T816Q05X	2075	150000	IMSON	2080	113400	SH16M03X	2080	130600	SH16M03X
2074	060700	T816Q02X	2074	073900	T816Q02X	2075	150016	T816Q02	2080	113500	SH16M02X	2080	130700	SH16M02X
2074	060800	T816Q05X	2074	074000	T816Q03X	2075	192900	STOPI T	2080	113600	SH16M03X	2080	130800	SH16M03X
2074	060900	T816Q02X	2074	074100	T816Q02X	2075	203200	APPON	2080	113700	SH16M02X	2080	130900	SH16M02X
2074	061000	T816Q03X	2074	074200	T816Q04X	2075	203216	SH16M01	2080	113800	SH16M03X	2080	131000	SH16M03X
2074	061100	T816Q02X	2074	074300	T816Q02X	2075	203316	SH16M02X	2080	113900	SH16M02X	2080	131100	SH16M02X
2074	061200	T816Q04X	2074	074400	T816Q05X	2076	021400	STOPI T	2080	114000	SH16M03X	2080	131200	SH16M03X
2074	061300	T816Q02X	2074	074500	T816Q02X	2076	034000	APPON	2080	114100	SH16M02X	2080	131300	SH16M02X
2074	061400	T816Q05X	2074	074600	T816Q03X	2076	034016	SS04P01	2080	114200	SH16M03X	2080	131400	SH16M03X
2074	061500	T816Q02X	2074	074700	T816Q02X	2076	090800	STOPI T	2080	114300	SH16M02X	2080	131500	SH16M02X
2074	061600	T816Q03X	2074	074800	T816Q04X	2076	101100	IMSON	2080	114400	SH16M03X	2080	131600	SH16M03X
2074	061700	T816Q02X	2074	074900	T816Q02X	2076	101116	T816Q02	2080	114500	SH16M02X	2080	131700	SH16M02X
2074	061800	T816Q04X	2074	075000	T816Q05X	2076	170200	STOPI T	2080	114600	SH16M03X	2080	131800	SH16M03X
2074	061900	T816Q02X	2074	075100	T816Q02X	2076	180500	APPON	2080	114700	SH16M02X	2080	131900	SH16M02X
2074	062000	T816Q05X	2074	075200	T816Q03X	2076	180516	T816Q02	2080	114800	SH16M03X	2080	132000	SH16M03X
2074	062100	T816Q02X	2074	075300	T816Q02X	2076	180616	T816Q05X	2080	114900	SH16M02X	2080	132100	SH16M02X
2074	062200	T816Q03X	2074	075400	T816Q04X	2076	224700	STOPI T	2080	115000	SH16M03X	2080	132200	SH16M03X
2074	062300	T816Q02X	2074	075500	T816Q02X	2077	003800	APPON	2080	115100	SH16M02X	2080	132300	SH16M02X
2074	062400	T816Q04X	2074	075600	T816Q05X	2077	003816	SH16M01	2080	115200	SH16M03X	2080	132400	SH16M03X
2074	062500	T816Q02X	2074	075700	T816Q02X	2077	003916	SH16M02X	2080	115300	SH16M02X	2080	132500	SH16M02X
2074	062600	T816Q05X	2074	075800	T816Q03X	2077	054200	STOPI T	2080	115400	SH16M03X	2080	132600	SH16M03X
2074	062700	T816Q02X	2074	075900	T816Q02X	2077	064400	IMSON	2080	115500	SH16M02X	2080	132700	SH16M02X
2074	062800	T816Q03X	2074	080000	T816Q04X	2077	064416	T816Q02	2080	115600	SH16M03X	2080	132800	SH16M03X
2074	062900	T816Q02X	2074	080100	T816Q02X	2077	124800	STOPI T	2080	115700	SH16M02X	2080	132900	SH16M02X
2074	063000	T816Q04X	2074	080200	T816Q05X	2077	133300	IM						

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2080 134800 STOPIT	2082 120100 SH16M03X	2082 133300 SH16M03X	2090 033500 IMSON	2097 183816 M083201
2080 140000 APPON	2082 120200 SH16M02X	2082 133400 SH16M02X	2090 033516 M083201	2098 010800 STOPIT
2080 140016 T816Q02	2082 120300 SH16M03X	2082 133500 SH16M03X	2090 083900 STOPIT	2098 013800 IMSON
2080 140116 T816Q05X	2082 120400 SH16M02X	2082 133600 SH16M02X	2090 100900 IMSON	2098 013816 M083201
2080 160000 STOPIT	2082 120500 SH16M03X	2082 133700 SH16M03X	2090 100916 M083201	2098 081800 STOPIT
2080 163800 APPON	2082 120600 SH16M02X	2082 133800 SH16M02X	2090 153300 STOPIT	2099 204700 APPON
2080 163816 T816Q02	2082 120700 SH16M03X	2082 133900 SH16M03X	2090 160400 IMSON	2099 204716 T816Q02
2080 163916 T816Q05X	2082 120800 SH16M02X	2082 134000 SH16M03X	2090 160416 M083201	2099 204816 T816Q05X
2080 224400 STOPIT	2082 120900 SH16M03X	2082 134200 SH16M03X	2090 225500 STOPIT	2099 204956 STOPIT
2081 002300 APPON	2082 121000 SH16M02X	2082 134300 STOPIT	2091 005700 IMSON	2099 213400 IMSON
2081 002316 SH16M01	2082 121100 SH16M03X	2082 135500 APPON	2091 005716 M083201	2099 213416 M083201
2081 002416 SH16M02X	2082 121200 SH16M02X	2082 135516 T816Q02	2091 050900 STOPIT	2100 021200 STOPIT
2081 053100 STOPIT	2082 121300 SH16M03X	2082 135616 T816Q05X	2091 061500 IMSON	2102 232500 APPON
2081 064100 IMSON	2082 121400 SH16M02X	2082 155500 STOPIT	2091 061516 M083201	2102 232516 T816Q02
2081 064116 M283401	2082 121500 SH16M03X	2082 163300 APPON	2091 130600 STOPIT	2102 232616 T816Q05X
2081 133200 STOPIT	2082 121600 SH16M02X	2082 163316 T816Q02	2091 202500 IMSON	2103 044200 STOPIT
2081 140000 APPON	2082 121700 SH16M03X	2082 163416 T816Q05X	2091 202516 HI04N01X	2103 061500 IMSON
2081 140016 SS04P01	2082 121800 SH16M02X	2082 223900 STOPIT	2091 202600 HI04N01X	2103 061516 SS28M01
2081 192000 STOPIT	2082 121900 SH16M03X	2083 001800 APPON	2091 202700 HI04N03X	2103 123500 IMSON
2081 205100 IMSON	2082 122000 SH16M02X	2083 001816 SH16M01	2091 202800 HI04N01X	2103 123516 T816Q02
2081 205116 T816Q02	2082 122100 SH16M03X	2083 001916 SH16M02X	2091 202900 HI04N03X	2103 192600 STOPIT
2082 020300 STOPIT	2082 122200 SH16M02X	2083 052600 STOPIT	2091 203000 HI04N01X	2104 024000 APPON
2082 033000 IMSON	2082 122300 SH16M03X	2083 063600 IMSON	2091 203100 HI04N03X	2104 024016 SH16M01
2082 033016 T816Q02	2082 122400 SH16M02X	2083 063616 M283401	2091 203200 HI04N01X	2104 024116 SH16M02X
2082 102100 STOPIT	2082 122500 SH16M03X	2083 132700 STOPIT	2091 203300 HI04N03X	2104 060000 SS28M01
2082 105500 APPON	2082 122600 SH16M02X	2083 135500 APPON	2091 203400 HI04N01X	2104 081000 STOPIT
2082 105516 SH16M01	2082 122700 SH16M03X	2083 135516 SS04P01	2091 203500 HI04N03X	2104 084000 IMSON
2082 105600 SH16M02X	2082 122800 SH16M02X	2083 191500 STOPIT	2091 204500 M083201	2104 084016 SS28M01
2082 105700 SH16M03X	2082 122900 SH16M03X	2084 033500 APPON	2092 023100 STOPIT	2104 152900 STOPIT
2082 105800 SH16M02X	2082 123000 SH16M02X	2084 033516 SH16M01	2092 030100 IMSON	2104 155900 IMSON
2082 105900 SH16M03X	2082 123100 SH16M03X	2084 033616 SH16M02X	2092 030116 M083201	2104 155916 T816Q02
2082 110000 SH16M02X	2082 123200 SH16M02X	2084 085000 STOPIT	2092 090700 STOPIT	2104 225000 STOPIT
2082 110100 SH16M03X	2082 123300 SH16M03X	2084 164700 IMSON	2092 093700 IMSON	2104 232000 APPON
2082 110200 SH16M02X	2082 123400 SH16M02X	2084 164716 T816Q02	2092 093716 M083201	2104 232016 T816Q02
2082 110300 SH16M03X	2082 123500 SH16M03X	2084 233800 STOPIT	2092 162800 STOPIT	2104 232116 T816Q05X
2082 110400 SH16M02X	2082 123600 SH16M02X	2085 002000 APPON	2092 170500 IMSON	2105 043800 STOPIT
2082 110500 SH16M03X	2082 123700 SH16M03X	2085 002016 SS04P01	2092 170516 M083201	2105 061000 IMSON
2082 110600 SH16M02X	2082 123800 SH16M02X	2085 052400 STOPIT	2092 225000 STOPIT	2105 061016 SS28M01
2082 110700 SH16M03X	2082 123900 SH16M03X	2085 055000 IMSON	2092 232000 IMSON	2105 113600 STOPIT
2082 110800 SH16M02X	2082 124000 SH16M02X	2085 055016 T816Q02	2092 232016 M083201	2105 120000 IMSON
2082 110900 SH16M03X	2082 124100 SH16M03X	2085 122900 STOPIT	2092 050500 STOPIT	2105 120016 T816Q02
2082 111000 SH16M02X	2082 124200 SH16M02X	2085 132000 IMSON	2093 053500 IMSON	2105 123100 CS04L01
2082 111100 SH16M03X	2082 124300 SH16M03X	2085 132016 M283401	2093 053516 M083201	2105 182400 STOPIT
2082 111200 SH16M02X	2082 124400 SH16M02X	2085 201100 STOPIT	2093 105900 STOPIT	2106 023500 APPON
2082 111300 SH16M03X	2082 124500 SH16M03X	2085 204600 IMSON	2093 127000 IMSON	2106 023516 SH16M01
2082 111400 SH16M02X	2082 124600 SH16M02X	2085 204616 T816Q02	2093 127016 M083201	2106 023616 SH16M02X
2082 111500 SH16M03X	2082 124700 SH16M03X	2086 025500 STOPIT	2093 181800 STOPIT	2106 055500 SS28M01
2082 111600 SH16M02X	2082 124800 SH16M02X	2086 033000 APPON	2093 202000 IMSON	2106 080500 STOPIT
2082 111700 SH16M03X	2082 124900 SH16M03X	2086 033016 SH16M01	2093 202016 HI04N01	2106 083500 IMSON
2082 111800 SH16M02X	2082 125000 SH16M02X	2086 033116 SH16M02X	2093 202100 HI04N01X	2106 083516 SS28M01
2082 111900 SH16M03X	2082 125100 SH16M03X	2086 084500 STOPIT	2093 202200 HI04N03X	2106 152400 STOPIT
2082 112000 SH16M02X	2082 125200 SH16M02X	2086 110000 APPON	2093 202300 HI04N01X	2106 155400 IMSON
2082 112100 SH16M03X	2082 125300 SH16M03X	2086 110016 T816Q02	2093 202400 HI04N03X	2106 155416 T816Q02
2082 112200 SH16M02X	2082 125400 SH16M02X	2086 110116 T816Q05X	2093 202500 HI04N01X	2106 224500 STOPIT
2082 112300 SH16M03X	2082 125500 SH16M03X	2086 154500 STOPIT	2093 202600 HI04N03X	2106 231500 APPON
2082 112400 SH16M02X	2082 125600 SH16M02X	2086 164200 IMSON	2093 202700 HI04N01X	2106 231516 T816Q02
2082 112500 SH16M03X	2082 125700 SH16M03X	2086 164216 T816Q02	2093 202800 HI04N03X	2106 231616 T816Q05X
2082 112600 SH16M02X	2082 125800 SH16M02X	2086 233300 STOPIT	2093 202900 HI04N01X	2107 043300 STOPIT
2082 112700 SH16M03X	2082 125900 SH16M03X	2087 001500 APPON	2093 203000 HI04N03X	2107 060500 IMSON
2082 112800 SH16M02X	2082 130000 SH16M02X	2087 001516 SS04P01	2093 204000 M083201	2107 060516 SS28M01
2082 112900 SH16M03X	2082 130100 SH16M03X	2087 051900 STOPIT	2094 022600 STOPIT	2107 113100 STOPIT
2082 113000 SH16M02X	2082 130200 SH16M02X	2087 054500 IMSON	2094 025600 IMSON	2107 115500 IMSON
2082 113100 SH16M03X	2082 130300 SH16M03X	2087 054516 T816Q02	2094 025616 M083201	2107 115516 T816Q02
2082 113200 SH16M02X	2082 130400 SH16M02X	2087 122400 STOPIT	2094 090200 STOPIT	2107 122600 CS04L01
2082 113300 SH16M03X	2082 130500 SH16M03X	2087 131500 IMSON	2094 093200 IMSON	2107 181900 STOPIT
2082 113400 SH16M02X	2082 130600 SH16M02X	2087 131516 M283401	2094 093216 M083201	2107 191800 IMSON
2082 113500 SH16M03X	2082 130700 SH16M03X	2087 200600 STOPIT	2094 162300 STOPIT	2107 191816 T816Q02
2082 113600 SH16M02X	2082 130800 SH16M02X	2087 203600 IMSON	2094 170000 IMSON	2108 020900 STOPIT
2082 113700 SH16M03X	2082 130900 SH16M03X	2087 203616 T816Q02	2094 170016 M083201	2108 041000 IMSON
2082 113800 SH16M02X	2082 131000 SH16M02X	2088 024400 STOPIT	2094 224500 STOPIT	2108 041016 SS28M01
2082 113900 SH16M03X	2082 131100 SH16M03X	2088 034000 APPON	2094 231500 IMSON	2108 090000 STOPIT
2082 114000 SH16M02X	2082 131200 SH16M02X	2088 034016 SH16M01	2094 231516 M083201	2108 111000 IMSON
2082 114100 SH16M03X	2082 131300 SH16M03X	2088 034116 SH16M02X	2095 050000 STOPIT	2108 111016 SS28M01
2082 114200 SH16M02X	2082 131400 SH16M02X	2088 084400 STOPIT	2095 112200 IMSON	2108 180000 STOPIT
2082 114300 SH16M03X	2082 131500 SH16M03X	2088 101400 IMSON	2095 112216 M083201	2108 213000 IMSON
2082 114400 SH16M02X	2082 131600 SH16M02X	2088 101416 T816Q02	2095 181300 STOPIT	2108 213016 T816Q02
2082 114500 SH16M03X	2082 131700 SH16M03X	2088 153800 STOPIT	2095 184300 IMSON	2109 042000 STOPIT
2082 114600 SH16M02X	2082 131800 SH16M02X	2088 160900 IMSON	2095 184316 M083201	2109 054000 IMSON
2082 114700 SH16M03X	2082 131900 SH16M03X	2088 160916 T816Q02	2096 011300 STOPIT	2109 054016 SS28M01
2082 114800 SH16M02X	2082 132000 SH16M02X	2088 230000 STOPIT	2096 014300 IMSON	2109 112300 STOPIT
2082 114900 SH16M03X	2082 132100 SH16M03X	2089 000200 IMSON	2096 014316 M083201	2109 115600 IMSON
2082 115000 SH16M02X	2082 132200 SH16M02X	2089 000216 M083201	2096 082300 STOPIT	2109 115616 SS28M01
2082 115100 SH16M03X	2082 132300 SH16M03X	2089 051400 STOPIT	2096 164900 IMSON	2109 184700 STOPIT
2082 115200 SH16M02X	2082 132400 SH16M02X	2089 062000 IMSON	2096 164916 M083201	2109 220000 APPON
2082 115300 SH16M03X	2082 132500 SH16M03X	2089 062016 M083201	2096 231100 STOPIT	2109 220016 SH16M01
2082 115400 SH16M02X	2082 132600 SH16M02X	2089 131100 STOPIT	2096 234100 IMSON	2109 220100 SH16M02X
2082 115500 SH16M03X	2082 132700 SH16M03X	2089 134100 IMSON	2096 234116 M083201	2109 220200 SH16M03X
2082 115600 SH16M02X	2082 132800 SH16M02X	2089 134116 M083201	2097 063200 STOPIT	2109 220300 SH16M02X
2082 115700 SH16M03X	2082 132900 SH16M03X	2089 185900 STOPIT	2097 122000 IMSON	2109 220400 SH16M03X
2082 115800 SH16M02X	2082 133000 SH16M02X	2089 203100 IMSON	2097 122016 M083201	2109 220500 SH16M02X
2082 115900 SH16M03X	2082 133100 SH16M03X	2089 203116 M083201	2097 180800 STOPIT	2109 220600 SH16M03X
2082 120000 SH16M02X	2082 133200 SH16M02X	2090 023900 STOPIT	2097 183800 IMSON	

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2109 220700 SH16M02X	2109 233900 SH16M02X
2109 220800 SH16M03X	2109 234000 SH16M03X
2109 220900 SH16M02X	2109 234100 SH16M02X
2109 221000 SH16M03X	2109 234200 SH16M03X
2109 221100 SH16M02X	2109 234300 SH16M02X
2109 221200 SH16M03X	2109 234400 SH16M03X
2109 221300 SH16M02X	2109 234500 SH16M02X
2109 221400 SH16M03X	2109 234600 SH16M03X
2109 221500 SH16M02X	2109 234700 SH16M02X
2109 221600 SH16M03X	2109 234800 SH16M03X
2109 221700 SH16M02X	2109 234900 SH16M02X
2109 221800 SH16M03X	2109 235000 SH16M03X
2109 221900 SH16M02X	2109 235100 SH16M02X
2109 222000 SH16M03X	2109 235200 SH16M03X
2109 222100 SH16M02X	2109 235300 SH16M02X
2109 222200 SH16M03X	2109 235400 SH16M03X
2109 222300 SH16M02X	2109 235500 SH16M02X
2109 222400 SH16M03X	2109 235600 SH16M03X
2109 222500 SH16M02X	2109 235700 SH16M02X
2109 222600 SH16M03X	2109 235800 SH16M03X
2109 222700 SH16M02X	2109 235900 SH16M02X
2109 222800 SH16M03X	2110 000000 SH16M03X
2109 222900 SH16M02X	2110 000100 SH16M02X
2109 223000 SH16M03X	2110 000200 SH16M03X
2109 223100 SH16M02X	2110 000300 SH16M02X
2109 223200 SH16M03X	2110 000400 SH16M03X
2109 223300 SH16M02X	2110 000500 SH16M02X
2109 223400 SH16M03X	2110 000600 SH16M03X
2109 223500 SH16M02X	2110 000700 SH16M02X
2109 223600 SH16M03X	2110 000800 SH16M03X
2109 223700 SH16M02X	2110 000900 SH16M02X
2109 223800 SH16M03X	2110 001000 SH16M03X
2109 223900 SH16M02X	2110 001100 SH16M02X
2109 224000 SH16M03X	2110 001200 SH16M03X
2109 224100 SH16M02X	2110 001300 SH16M02X
2109 224200 SH16M03X	2110 001400 SH16M03X
2109 224300 SH16M02X	2110 001500 SH16M02X
2109 224400 SH16M03X	2110 001600 SH16M03X
2109 224500 SH16M02X	2110 001700 SH16M02X
2109 224600 SH16M03X	2110 001800 SH16M03X
2109 224700 SH16M02X	2110 001900 SH16M02X
2109 224800 SH16M03X	2110 002000 SH16M03X
2109 224900 SH16M02X	2110 002100 SH16M02X
2109 225000 SH16M03X	2110 002200 SH16M03X
2109 225100 SH16M02X	2110 002300 SH16M02X
2109 225200 SH16M03X	2110 002400 SH16M03X
2109 225300 SH16M02X	2110 002500 SH16M02X
2109 225400 SH16M03X	2110 002600 SH16M03X
2109 225500 SH16M02X	2110 002700 SH16M02X
2109 225600 SH16M03X	2110 002800 SH16M03X
2109 225700 SH16M02X	2110 002900 SH16M02X
2109 225800 SH16M03X	2110 003000 SH16M03X
2109 225900 SH16M02X	2110 003100 SH16M02X
2109 230000 SH16M03X	2110 003200 SH16M03X
2109 230100 SH16M02X	2110 003300 SH16M02X
2109 230200 SH16M03X	2110 003400 SH16M03X
2109 230300 SH16M02X	2110 003500 SH16M02X
2109 230400 SH16M03X	2110 003600 SH16M03X
2109 230500 SH16M02X	2110 003700 SH16M02X
2109 230600 SH16M03X	2110 003800 SH16M03X
2109 230700 SH16M02X	2110 003900 SH16M02X
2109 230800 SH16M03X	2110 004000 SH16M03X
2109 230900 SH16M02X	2110 004100 SH16M02X
2109 231000 SH16M03X	2110 004200 SH16M03X
2109 231100 SH16M02X	2110 004300 SH16M02X
2109 231200 SH16M03X	2110 004400 SH16M03X
2109 231300 SH16M02X	2110 004500 SH16M02X
2109 231400 SH16M03X	2110 004700 SH16M03X
2109 231500 SH16M02X	2110 004800 STOP IT
2109 231600 SH16M03X	
2109 231700 SH16M02X	END LISTING
2109 231800 SH16M03X	
2109 231900 SH16M02X	
2109 232000 SH16M03X	
2109 232100 SH16M02X	
2109 232200 SH16M03X	
2109 232300 SH16M02X	
2109 232400 SH16M03X	
2109 232500 SH16M02X	
2109 232600 SH16M03X	
2109 232700 SH16M02X	
2109 232800 SH16M03X	
2109 232900 SH16M02X	
2109 233000 SH16M03X	
2109 233100 SH16M02X	
2109 233200 SH16M03X	
2109 233300 SH16M02X	
2109 233400 SH16M03X	
2109 233500 SH16M02X	
2109 233600 SH16M03X	
2109 233700 SH16M02X	
2109 233800 SH16M03X	

V. DE1/RIMS 1982 SUMMARY SPECTROGRAMS

Errata

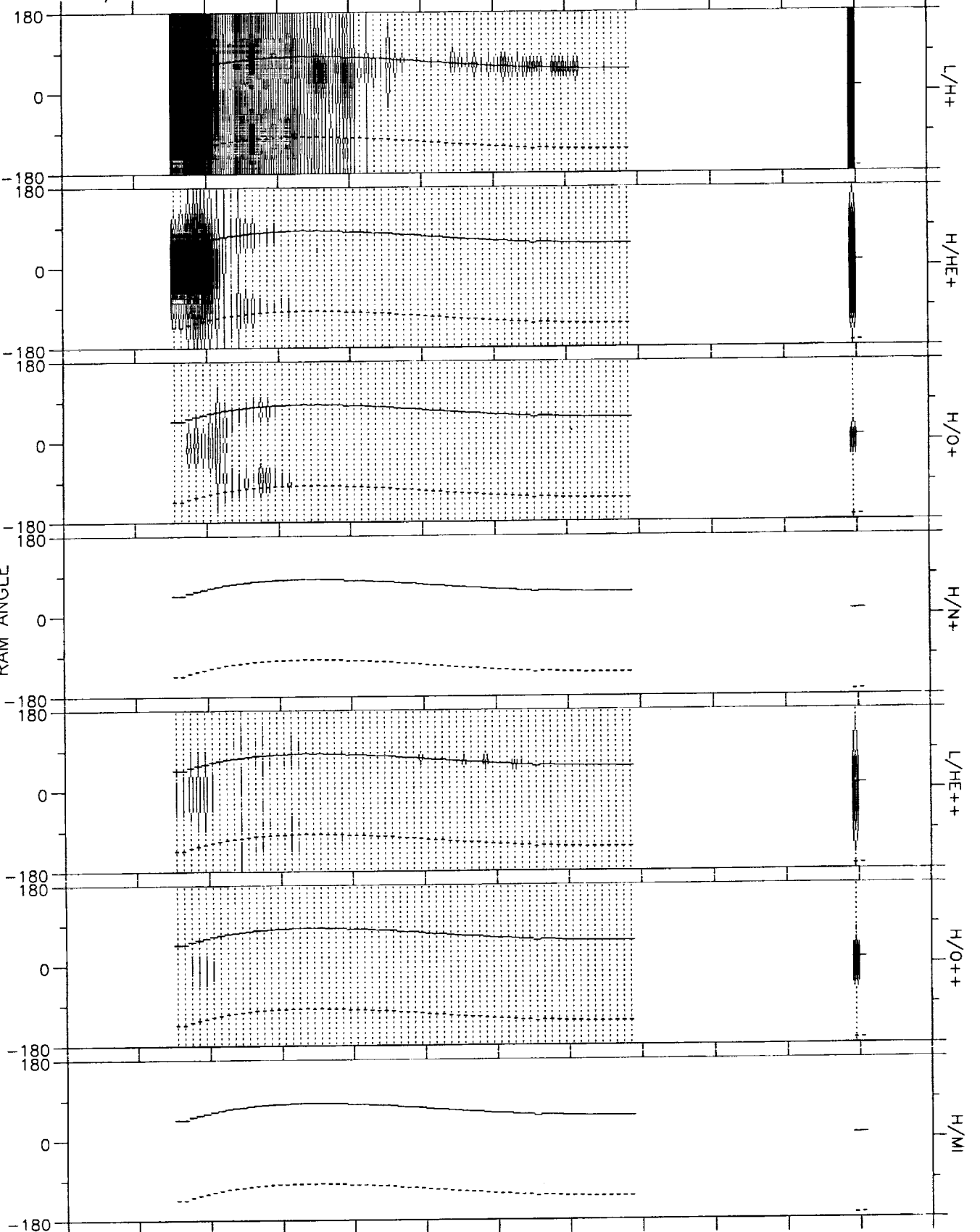
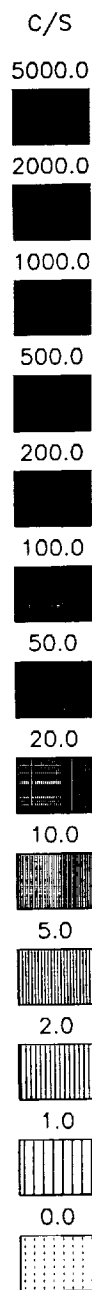
Units listed for the various orbit parameters shown
at the bottom of each plot should be as follows:

TIME HHMM
RE RE
L
MLT HRS
MLAT DEGS
INVLAT DEGS

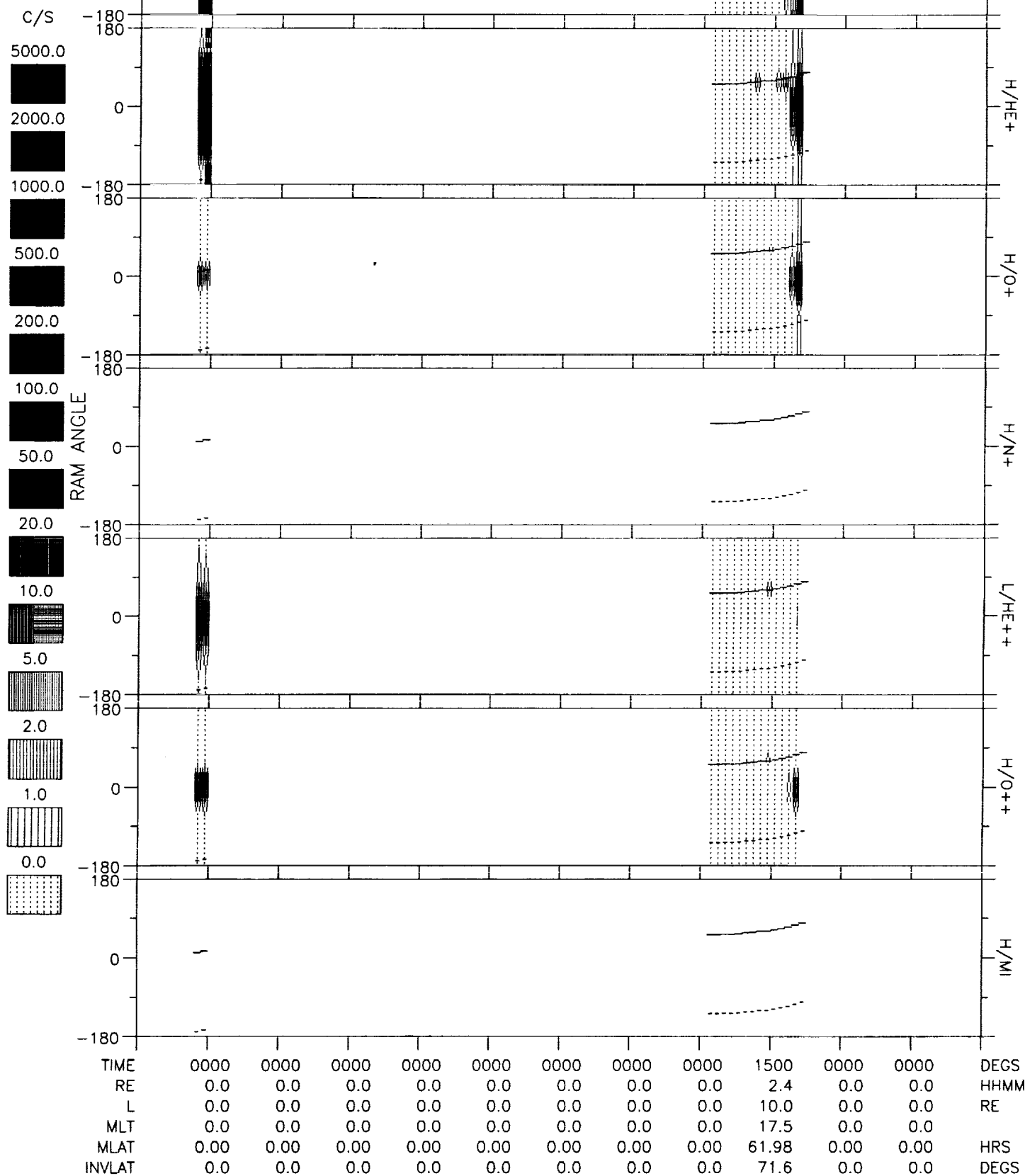
The panel labeled L/He⁺⁺ refers to the response of the
RIMS low-mass channel to the M/Z=2 mass/charge settings.

DE RIMS SPIN SUMMARY
SPIN/RADIAL/L (V1.0)
Fri Sep 3 14:47:26 1993

82/001 01-JAN 0215:00 - 1015:00 HEAD= RL RPA= 0 to 1000 BIAS= A

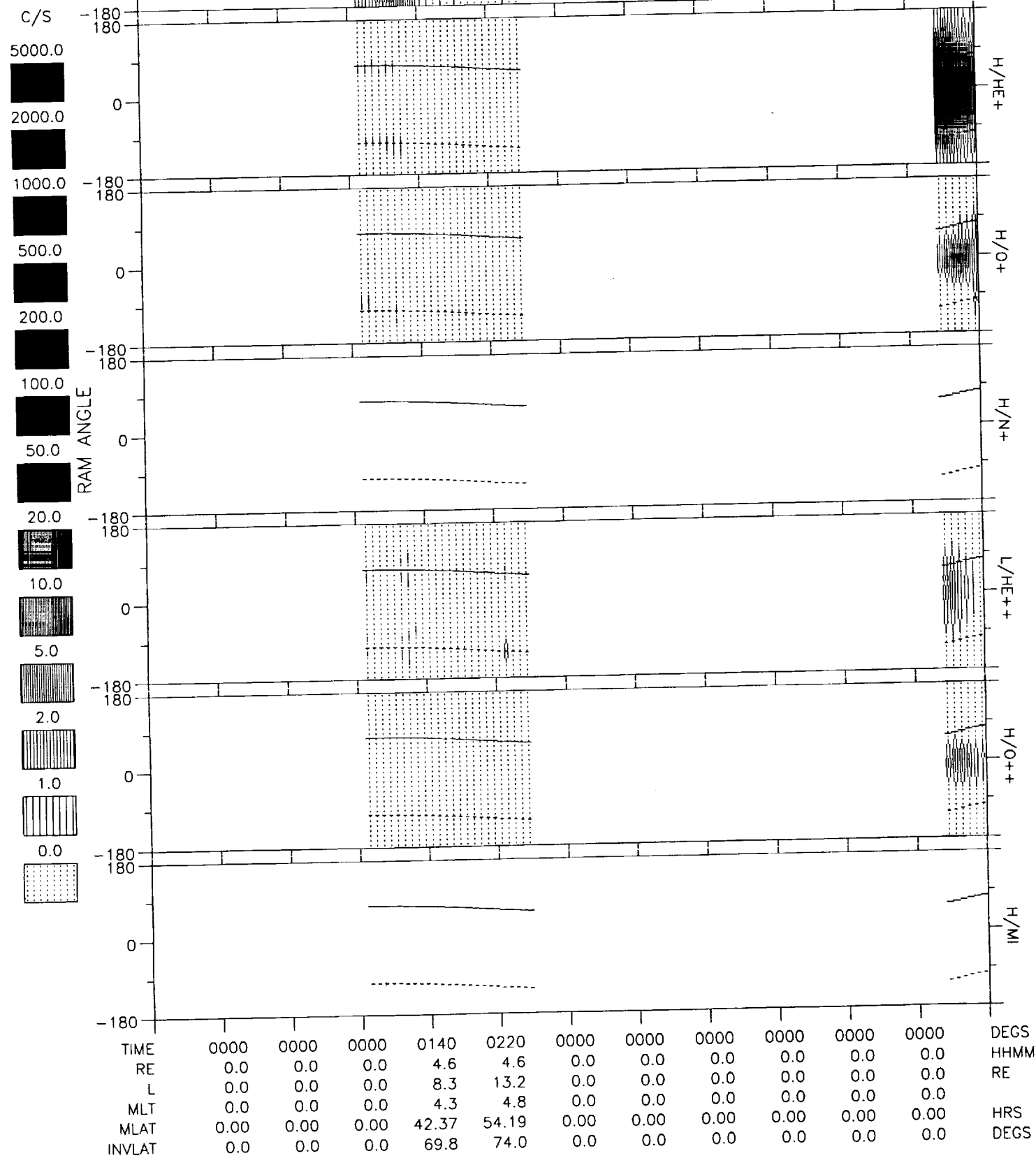


TIME	0000	0335	0415	0455	0535	0615	0655	0000	0000	0000	0935	DECS
RE	0.0	3.6	4.2	4.6	4.7	4.5	4.1	0.0	0.0	0.0	2.2	HHMM
L	0.0	3.9	6.1	9.7	17.7	42.2	100.0	0.0	0.0	0.0	2.2	RE
MLT	0.0	4.1	4.4	4.7	5.0	5.6	8.1	0.0	0.0	0.0	4.3	
MLAT	0.00	19.05	35.47	48.30	60.54	72.32	84.14	0.00	0.00	0.00	-9.52	HRS
INVLAT	0.0	59.7	66.2	71.3	76.2	81.2	86.6	0.0	0.0	0.0	48.2	DECS



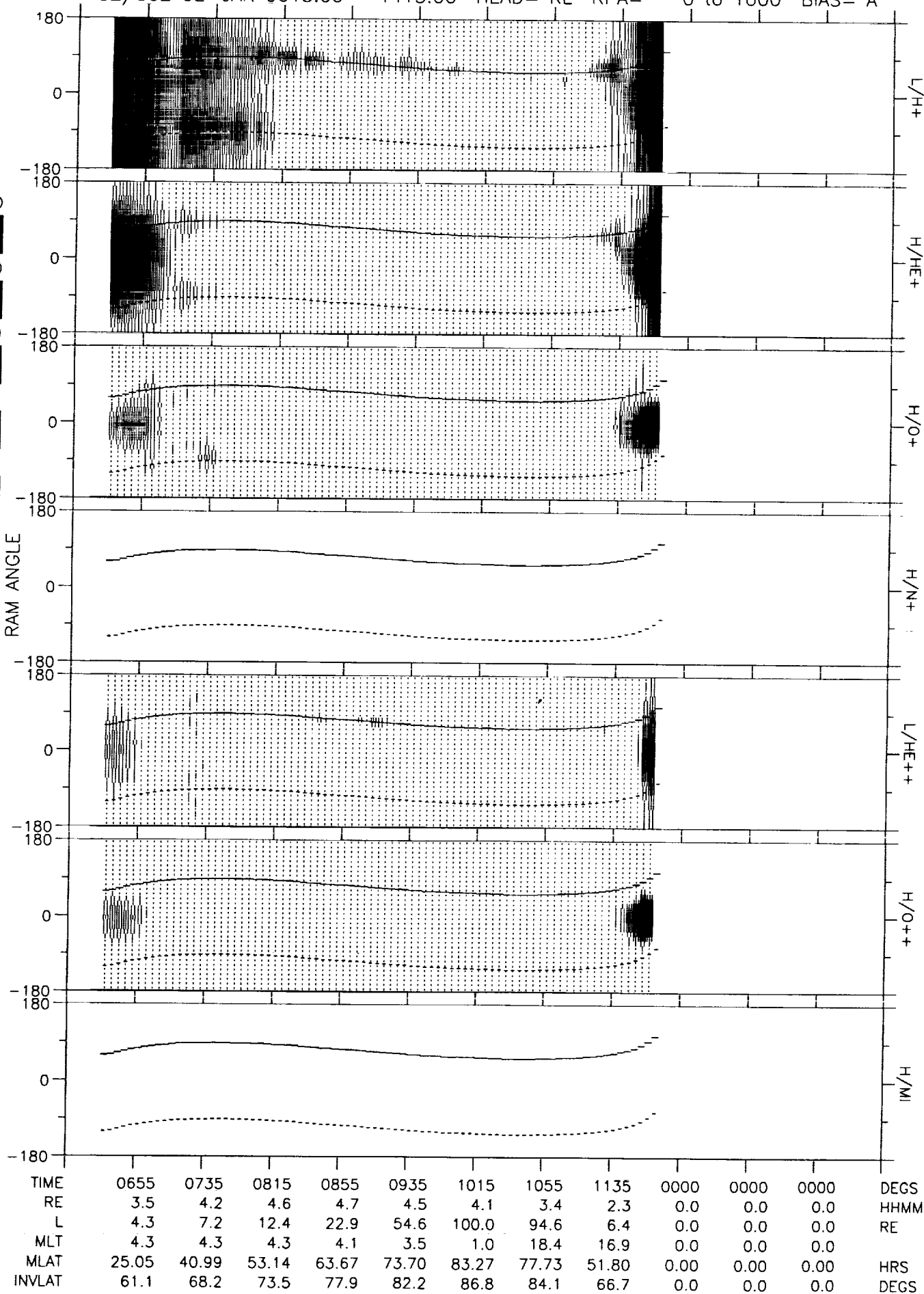
DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Fri Sep 3 15:15:43 1993

82/001 01-JAN 2300:00 - 0700:00 HEAD= RL RPA= 0 to 1000 BIAS= A



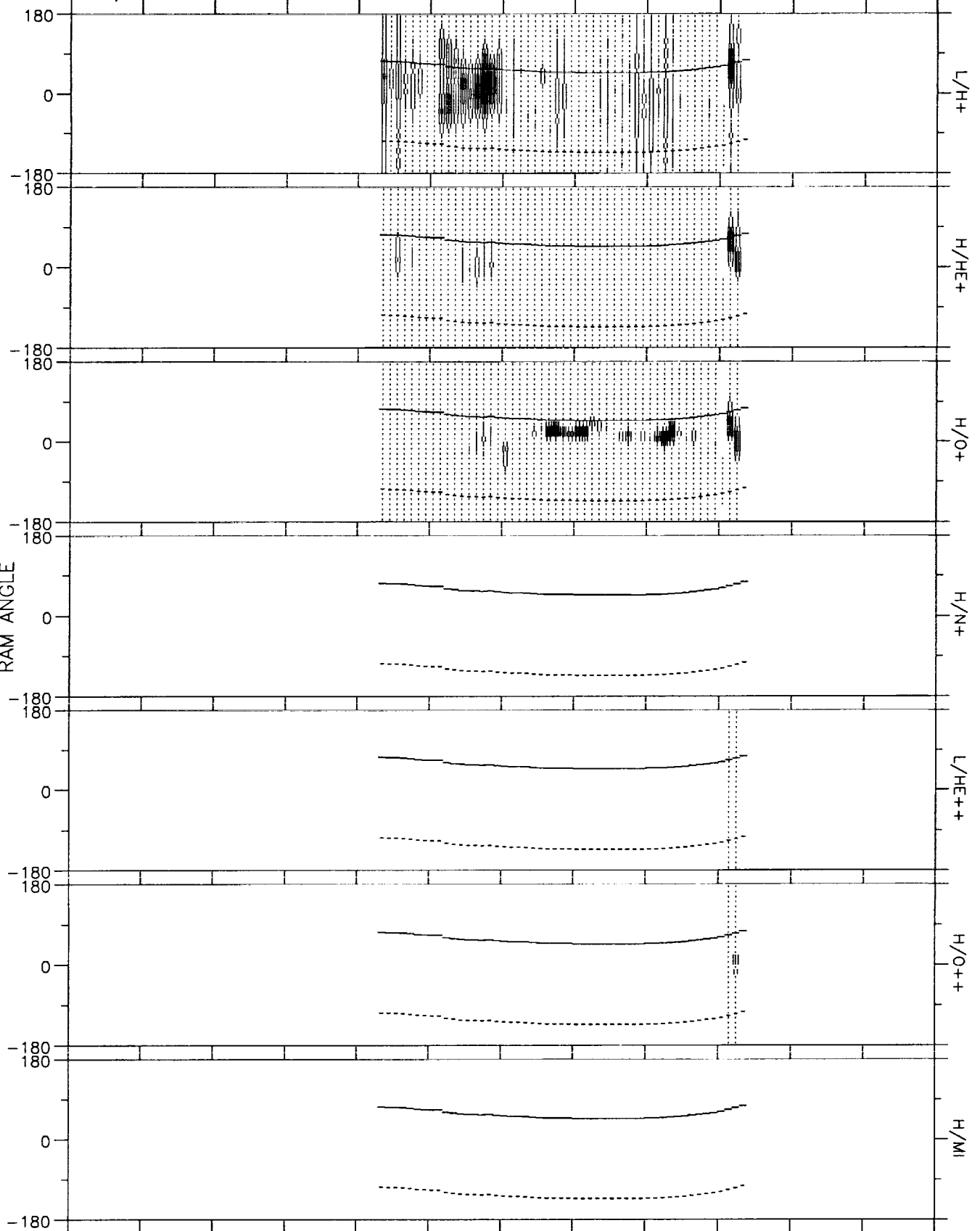
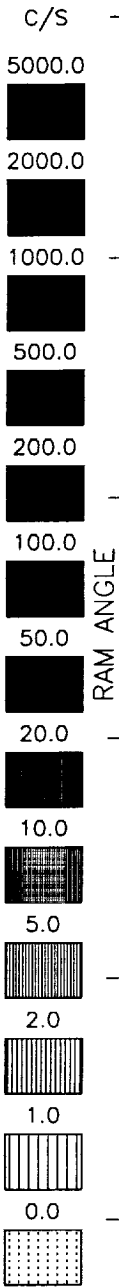
DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Fri Sep 3 15:18:34 1993

82/002 02-JAN 0615:00 - 1415:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Fri Sep 3 15:22:40 1993

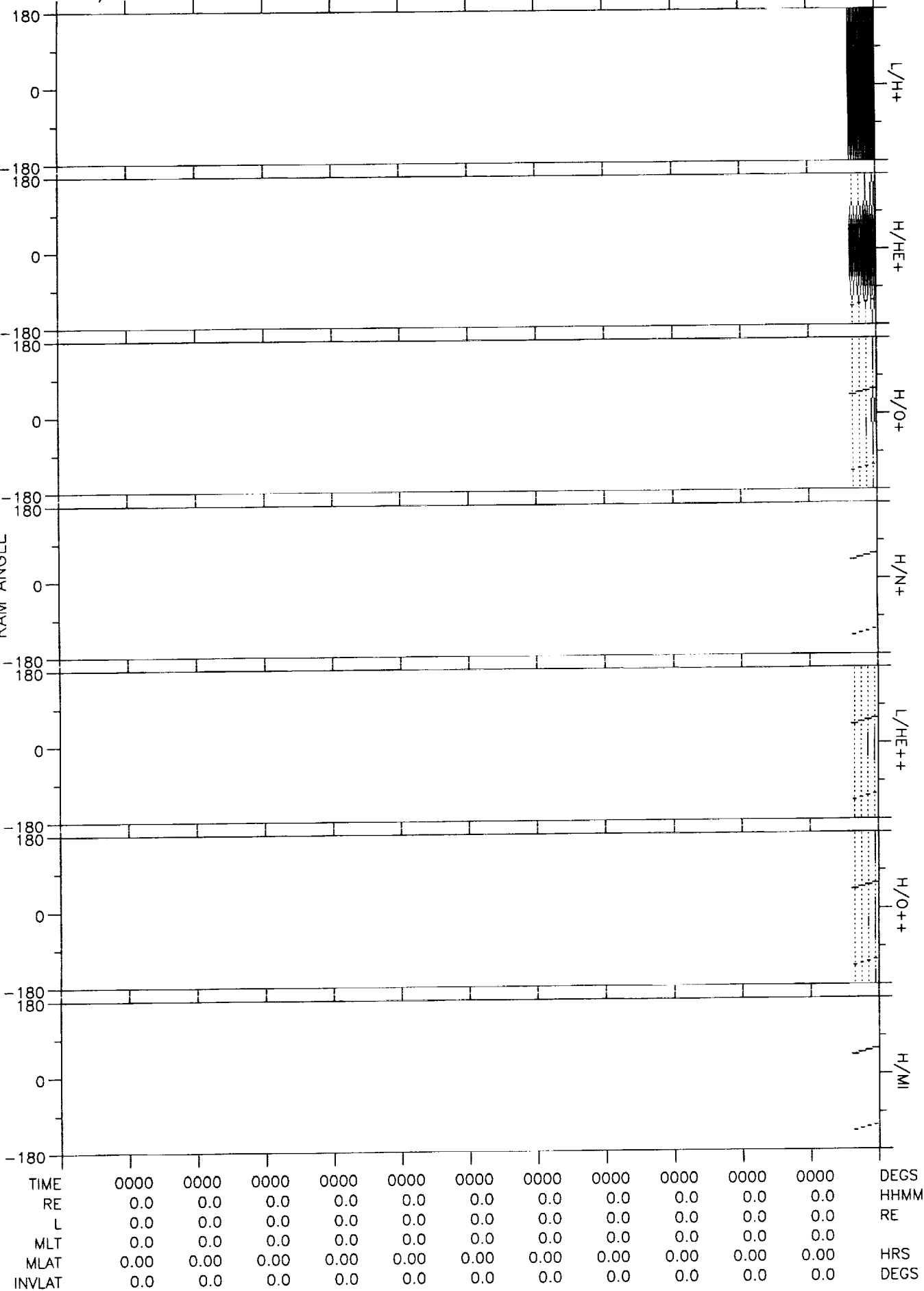
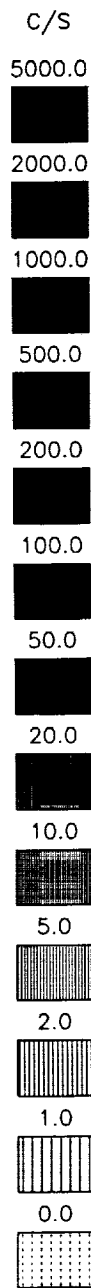
82/002 02-JAN 1230:00 - 2030:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	1550	1630	1710	1750	1830	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	4.7	4.5	4.0	3.3	2.3	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	10.6	15.6	30.0	100.0	15.4	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	3.1	2.8	2.4	0.4	16.8	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	48.25	56.95	67.32	80.74	69.51	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	72.1	75.3	79.5	85.5	75.2	0.0	0.0	DEGS

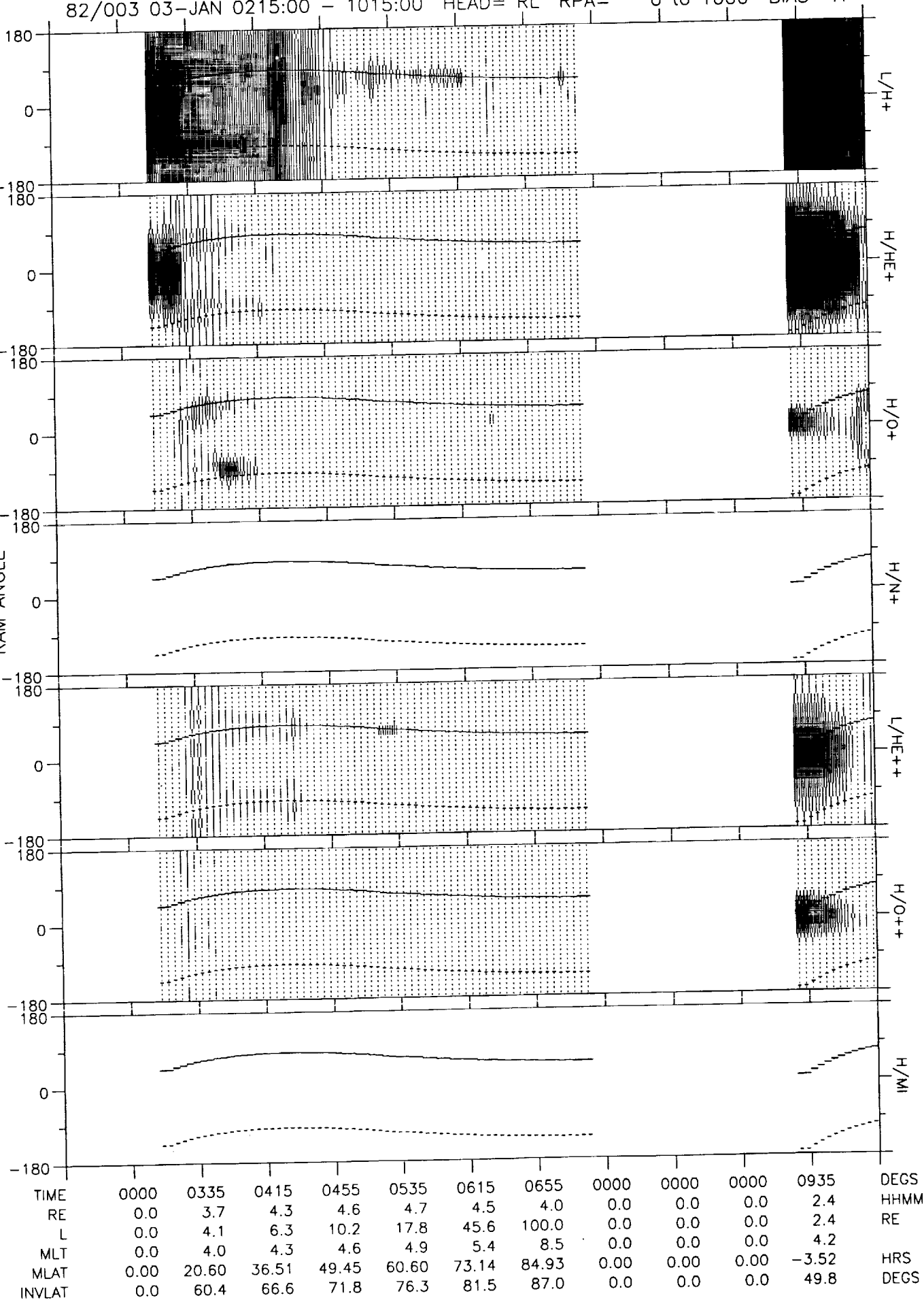
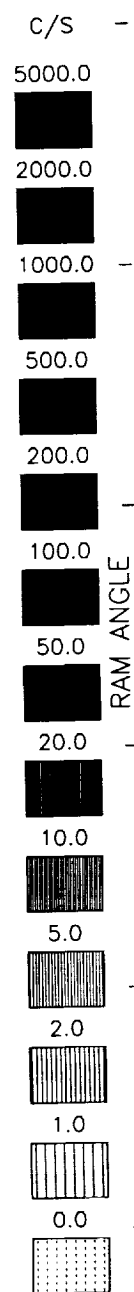
DE RINS SPIN SUMMARY
SPIN/RADIAL/ALL (V1.0)
Fri Sep 3 15:25:09 1993

82/002 02-JAN 1930:00 - 0330:00 HEAD= RL RPA= 0 to 1000 BIAS= A



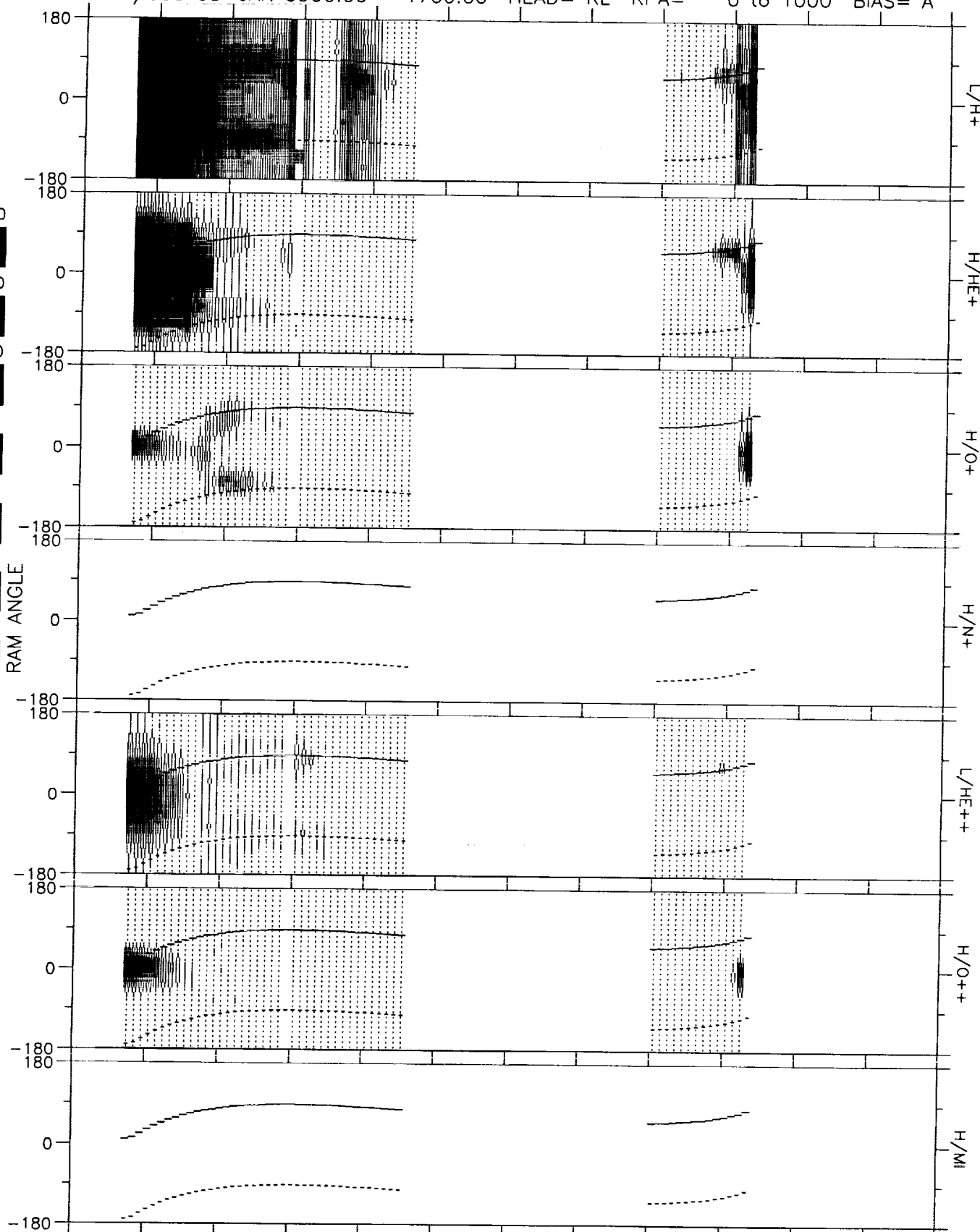
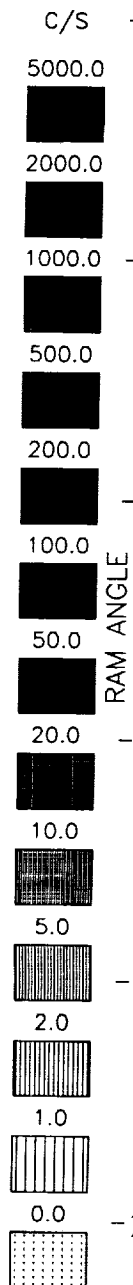
DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Fri Sep 3 15:26:19 1993

82/003 03-JAN 0215:00 - 1015:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Fri Sep 3 15:28:30 1993

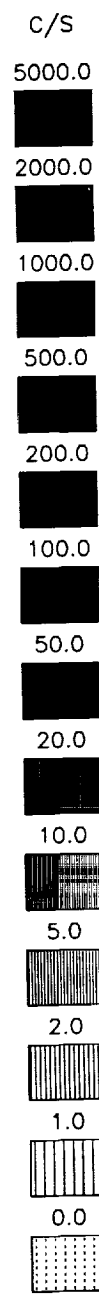
82/003 03-JAN 0900:00 - 1700:00 HEAD= RL RPA= 0 to 1000 BIAS= A



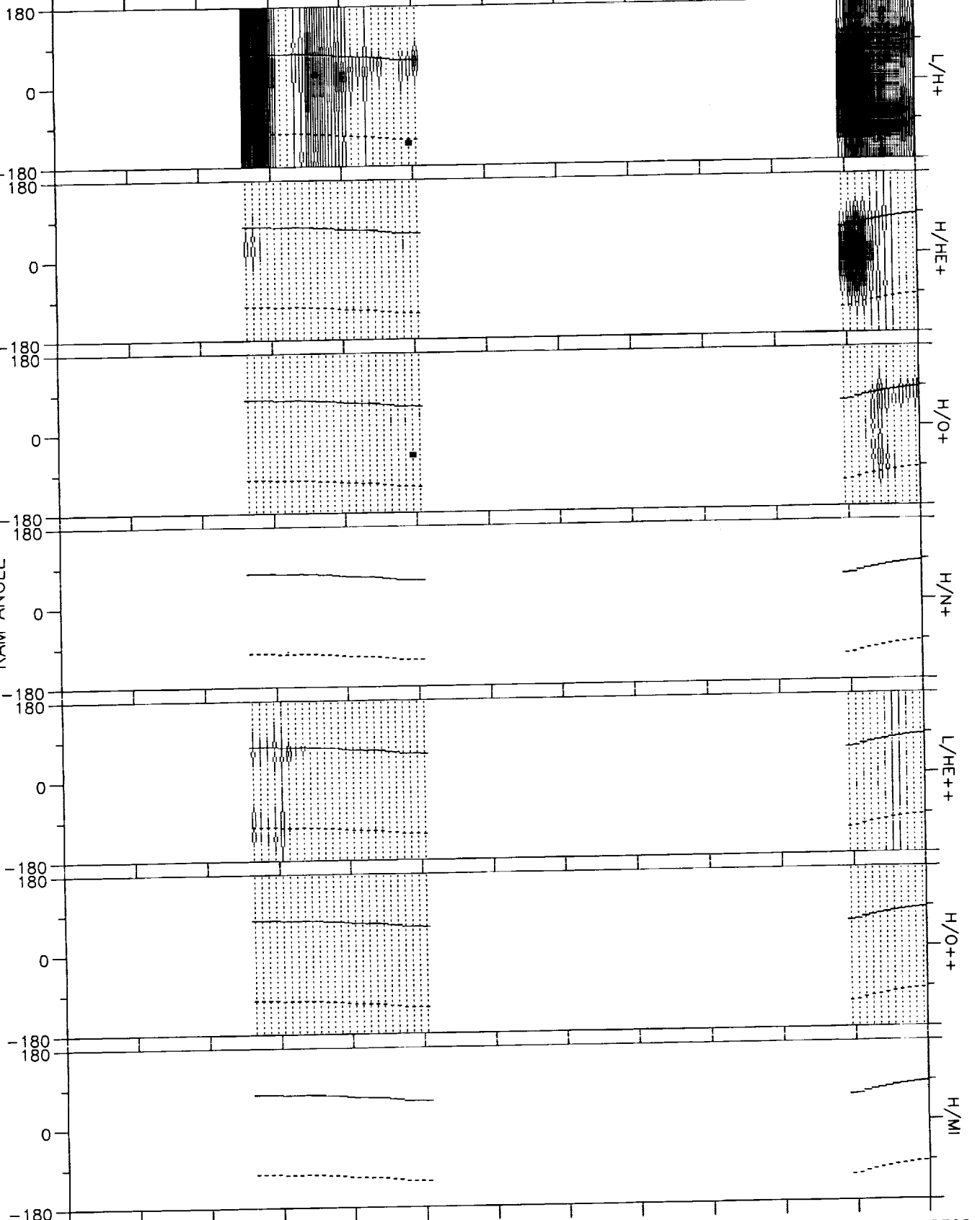
TIME	0940	1020	1100	1140	0000	0000	0000	1420	1500	0000	0000	DEGS
RE	2.5	3.5	4.2	4.6	0.0	0.0	0.0	3.4	2.2	0.0	0.0	HHMM
L	2.6	4.4	6.9	10.5	0.0	0.0	0.0	100.0	7.7	0.0	0.0	RE
MLT	4.2	4.0	3.8	3.5	0.0	0.0	0.0	21.4	17.2	0.0	0.0	
MLAT	1.20	25.14	38.86	48.82	0.00	0.00	0.00	78.48	58.87	0.00	0.00	HRS
INVLAT	51.3	61.4	67.7	72.0	0.0	0.0	0.0	84.4	68.9	0.0	0.0	DEGS

DE RINS SPIN SUMMARY
SPINRADIALALL (V1.0)
Fri Sep 3 15:30:24 1993

82/003 03-JAN 2315:00 - 0715:00 HEAD= RL RPA= 0 to 1000 BIAS= A



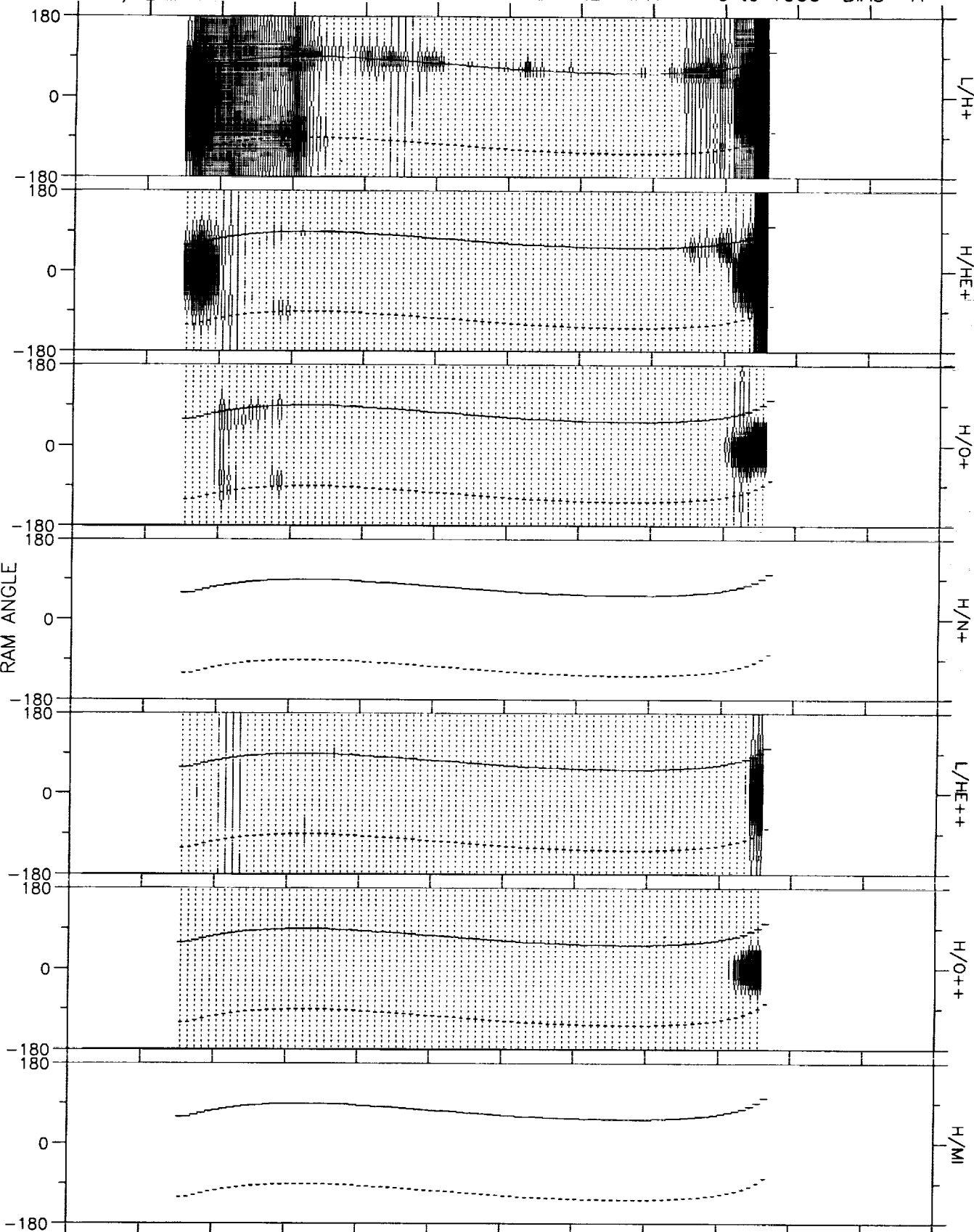
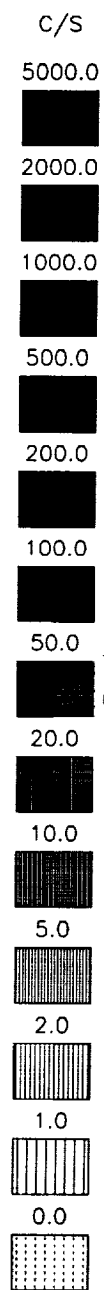
RAM ANGLE



TIME	0000	0000	0115	0155	0235	0000	0000	0000	0000	0000	0635	DEGS
RE	0.0	0.0	4.5	4.7	4.6	0.0	0.0	0.0	0.0	0.0	3.1	HHMM
L	0.0	0.0	6.8	10.0	16.1	0.0	0.0	0.0	0.0	0.0	3.4	RE
MLT	0.0	0.0	4.0	4.4	4.9	0.0	0.0	0.0	0.0	0.0	4.0	
MLAT	0.00	0.00	35.55	47.64	58.51	0.00	0.00	0.00	0.00	0.00	16.09	HRS
INVLAT	0.0	0.0	67.4	71.6	75.6	0.0	0.0	0.0	0.0	0.0	57.4	DEGS

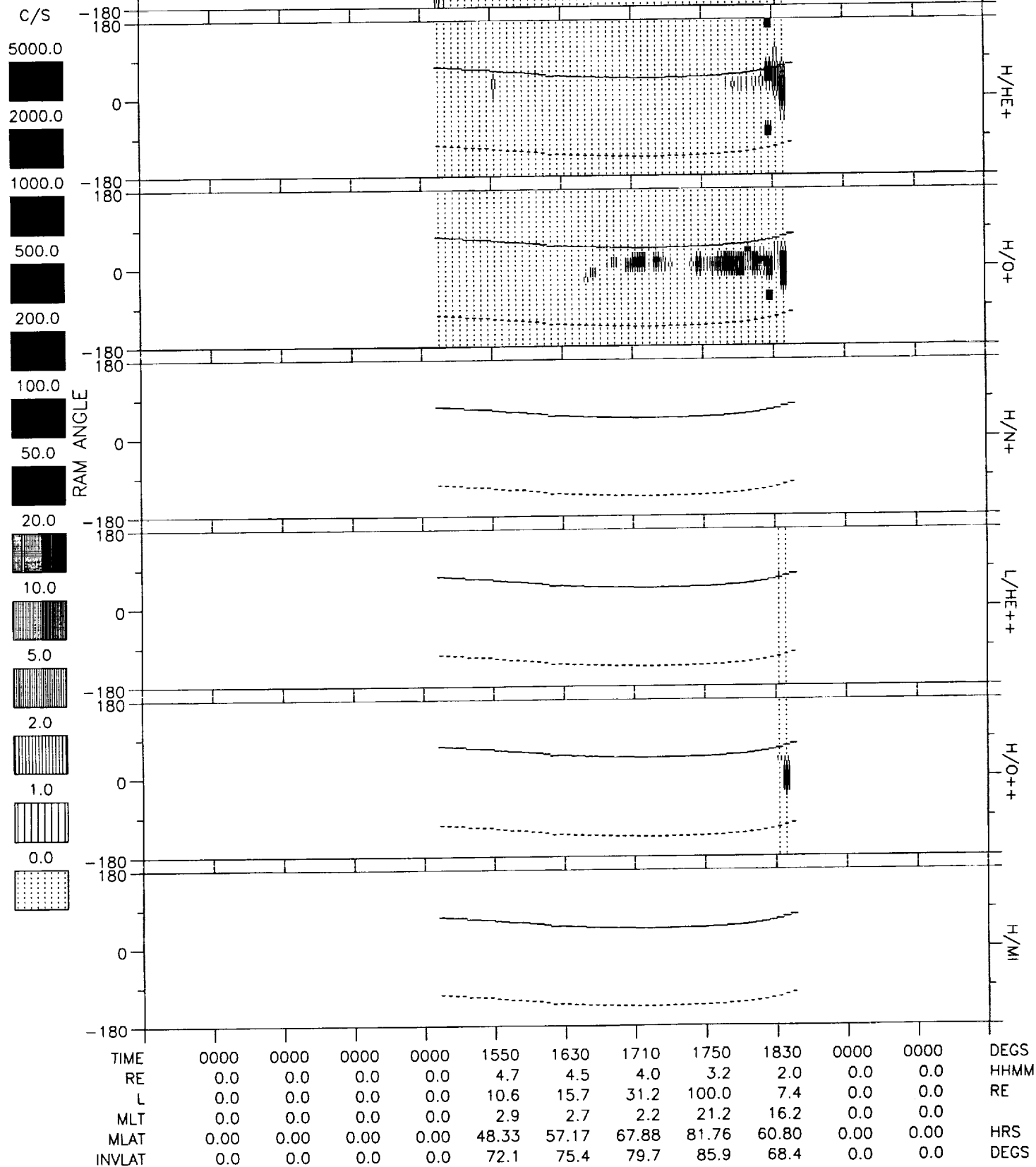
DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Fri Sep 3 15:31:54 1993

82/004 04-JAN 0530:00 - 1330:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0650	0730	0810	0850	0930	1010	1050	1130	0000	0000	DEGS
RE	0.0	3.5	4.2	4.5	4.7	4.5	4.1	3.4	2.3	0.0	0.0	HHMM
L	0.0	4.2	7.0	11.9	21.6	49.3	100.0	100.0	6.9	0.0	0.0	RE
MLT	0.0	4.1	4.2	4.1	3.9	3.4	1.2	18.5	16.8	0.0	0.0	HRS
MLAT	0.00	24.08	40.10	52.26	62.77	72.76	82.46	78.61	53.37	0.00	0.00	DEGS
INVLAT	0.0	60.8	67.9	73.2	77.6	81.8	86.3	84.6	67.7	0.0	0.0	

82/004 04-JAN 1230:00 - 2030:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPINRADIAL (V1.0)
Fri Sep 3 15:35:31 1993

82/004 04-JAN 1930:00 - 0330:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

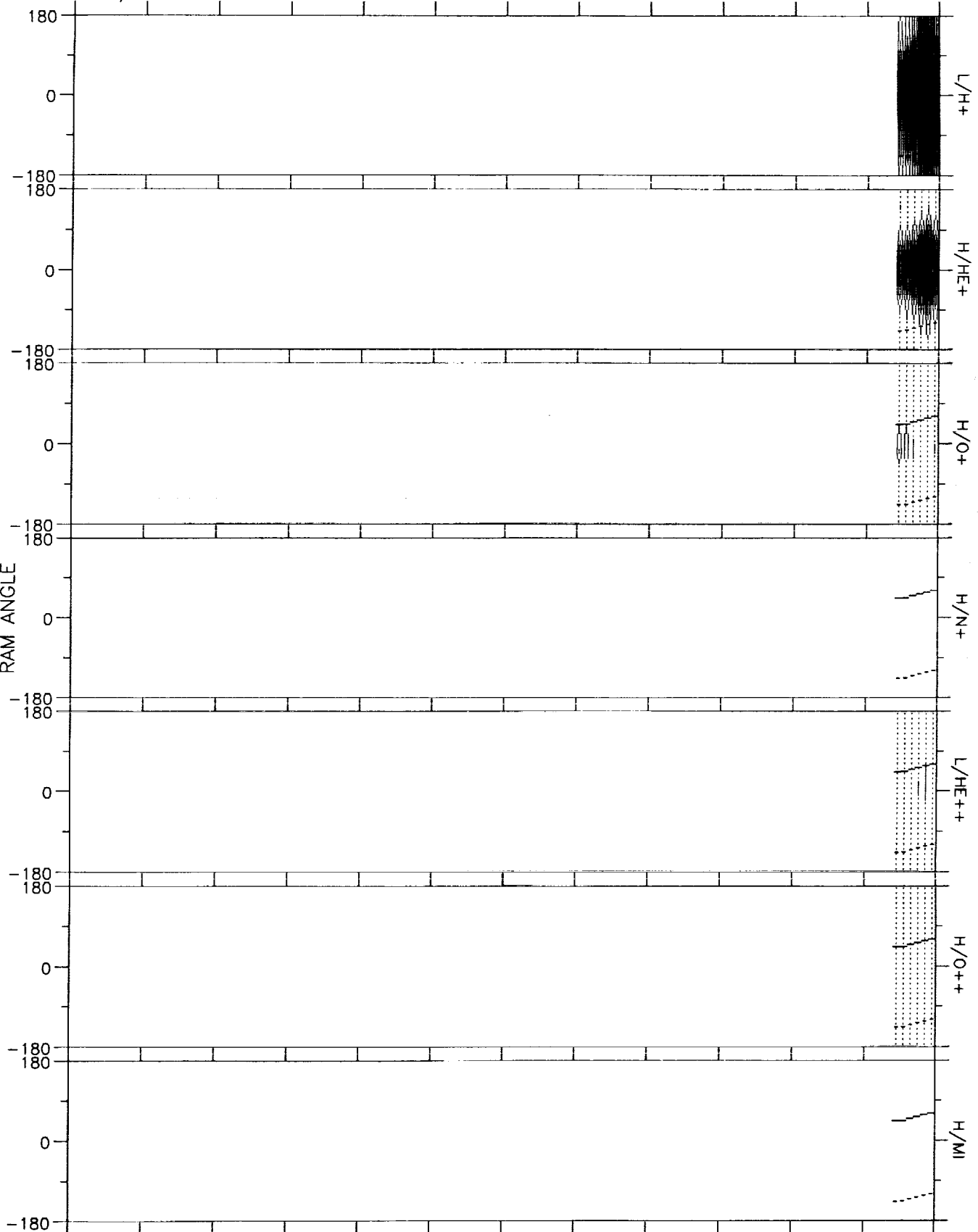
5.0

2.0

1.0

0.0

RAM ANGLE



TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS

DE RMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Fri Sep 3 15:36:43 1993

82/005 05-JAN 0215:00 - 1015:00 HEAD= RL RPA= 0 to 1000 BIAS= A

c/s

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

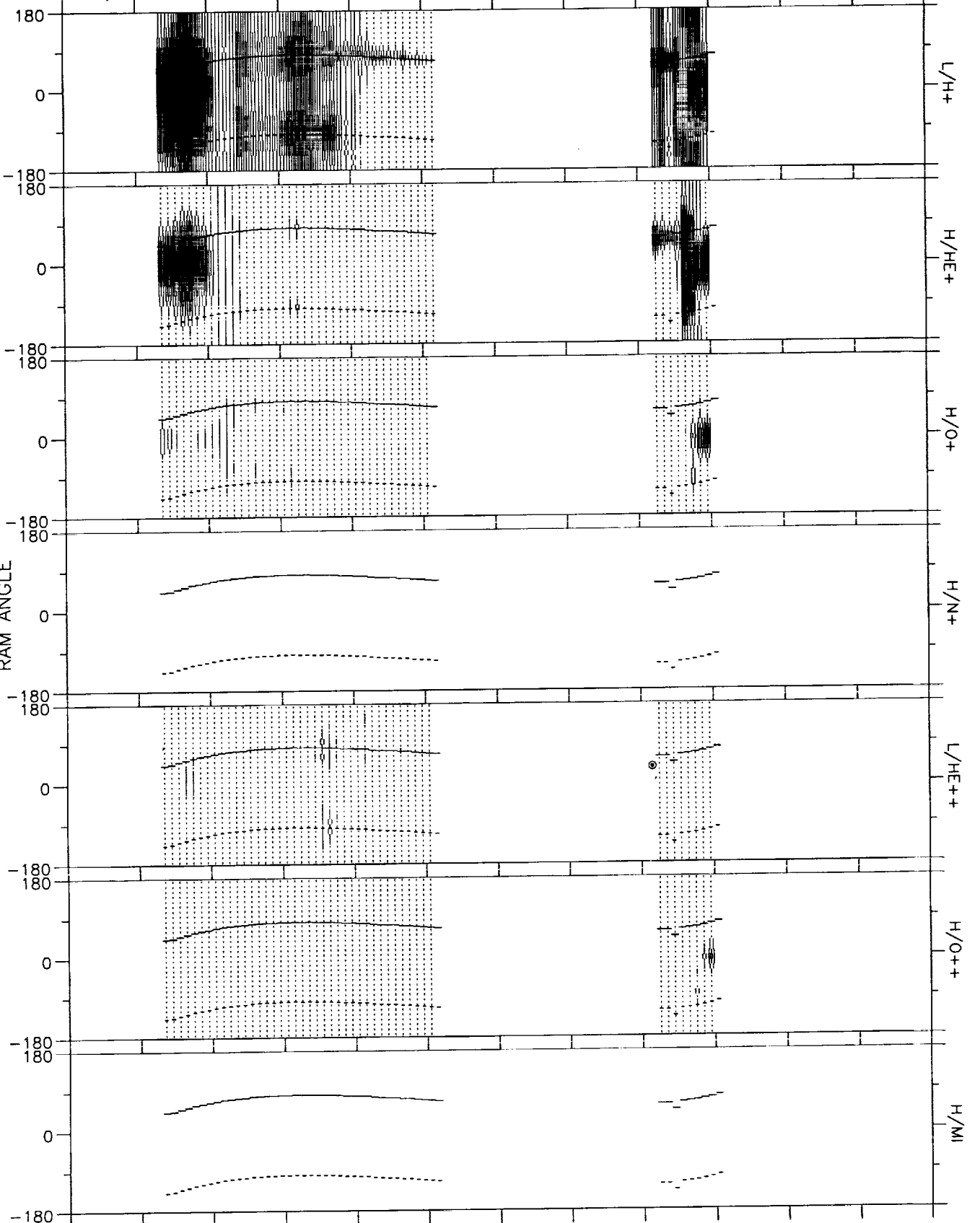
5.0

2.0

1.0

0.0

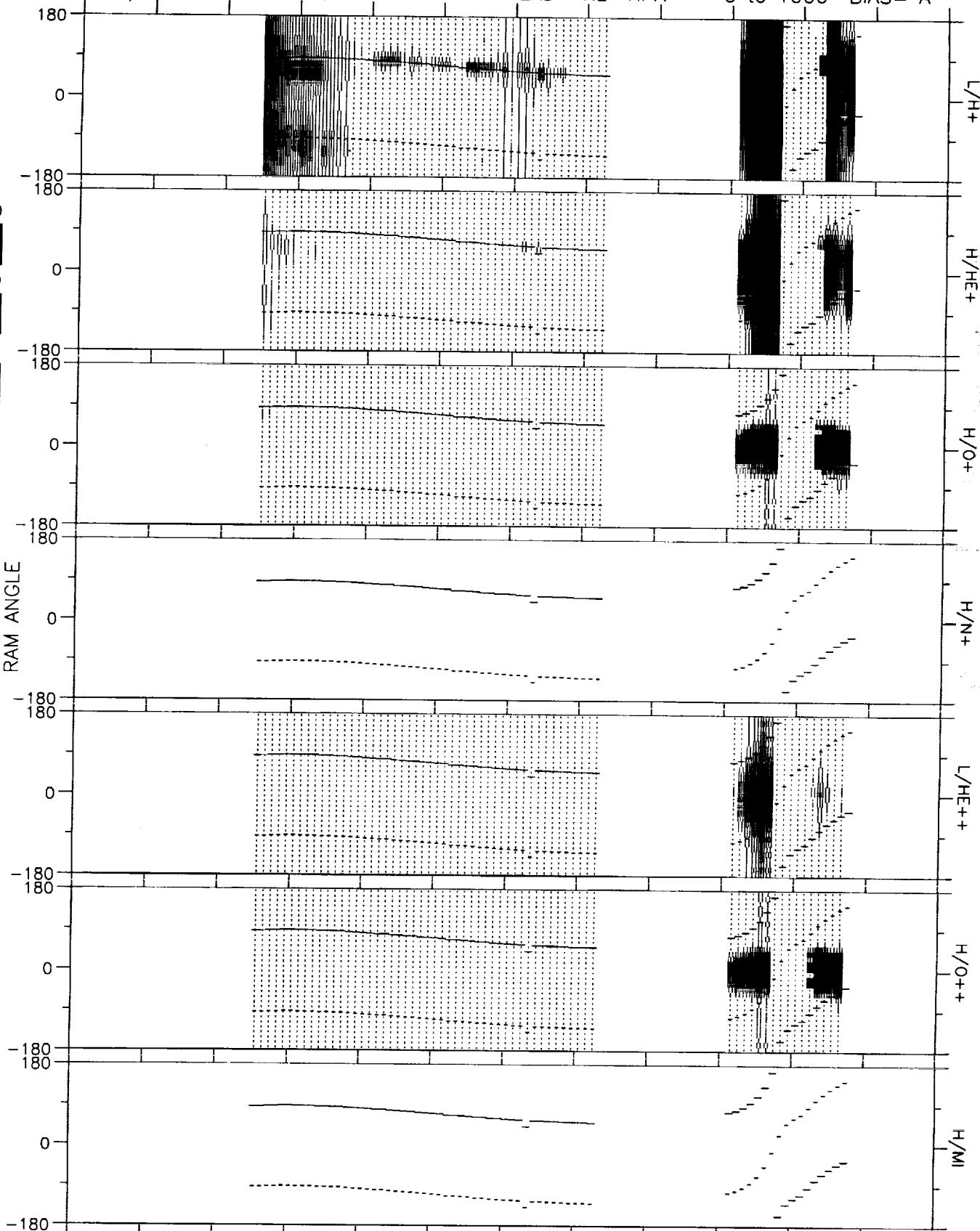
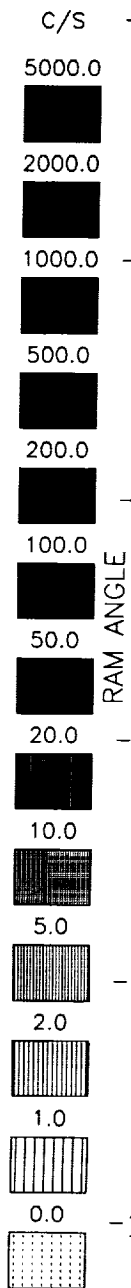
RAM ANGLE



TIME	0000	0335	0415	0455	0535	0000	0000	0000	0815	0000	0000	DEGS
RE	0.0	3.7	4.3	4.6	4.6	0.0	0.0	0.0	2.0	0.0	0.0	HHMM
L	0.0	4.3	6.6	10.6	19.4	0.0	0.0	0.0	3.3	0.0	0.0	RE
MLT	0.0	3.8	4.1	4.4	4.7	0.0	0.0	0.0	16.0	0.0	0.0	HRS
MLAT	0.00	22.09	37.52	50.28	62.07	0.00	0.00	0.00	37.87	0.00	0.00	DEGS
INVLAT	0.0	61.0	67.1	72.1	76.9	0.0	0.0	0.0	56.8	0.0	0.0	

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Fri Sep 3 15:36:27 1993

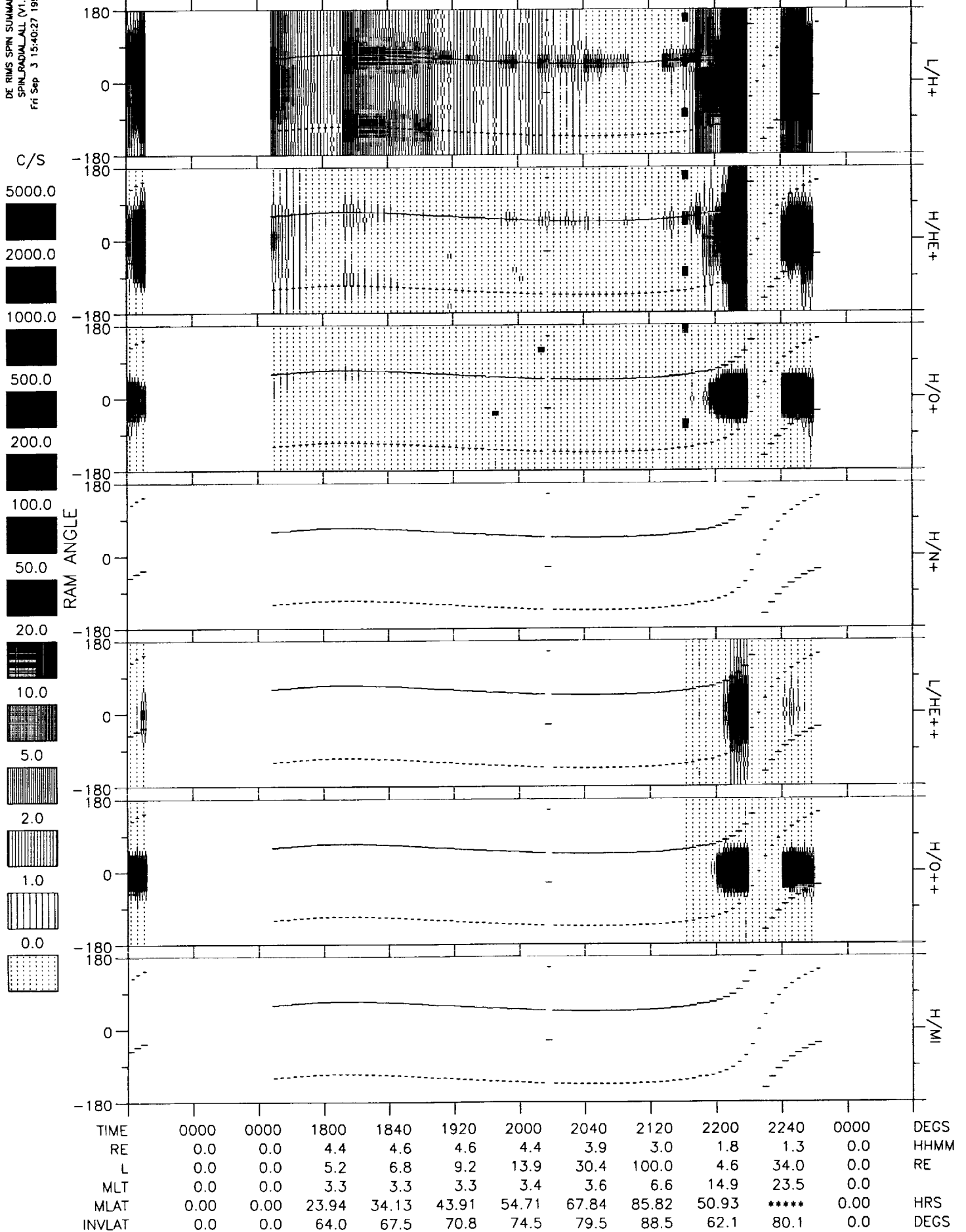
82/005 05-JAN 0900:00 - 1700:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	1100	1140	1220	1300	1340	0000	0000	1540	0000	DEGS
RE	0.0	0.0	4.2	4.6	4.7	4.5	4.0	0.0	0.0	1.1	0.0	HHMM
L	0.0	0.0	7.1	10.6	15.9	25.9	56.2	0.0	0.0	4.0	0.0	RE
MLT	0.0	0.0	3.6	3.3	2.9	2.3	1.0	0.0	0.0	14.4	0.0	
MLAT	0.00	0.00	39.23	48.94	57.22	65.21	73.63	0.00	0.00	*****	0.00	HRS
INVLAT	0.0	0.0	67.9	72.1	75.5	78.7	82.3	0.0	0.0	60.0	0.0	DEGS

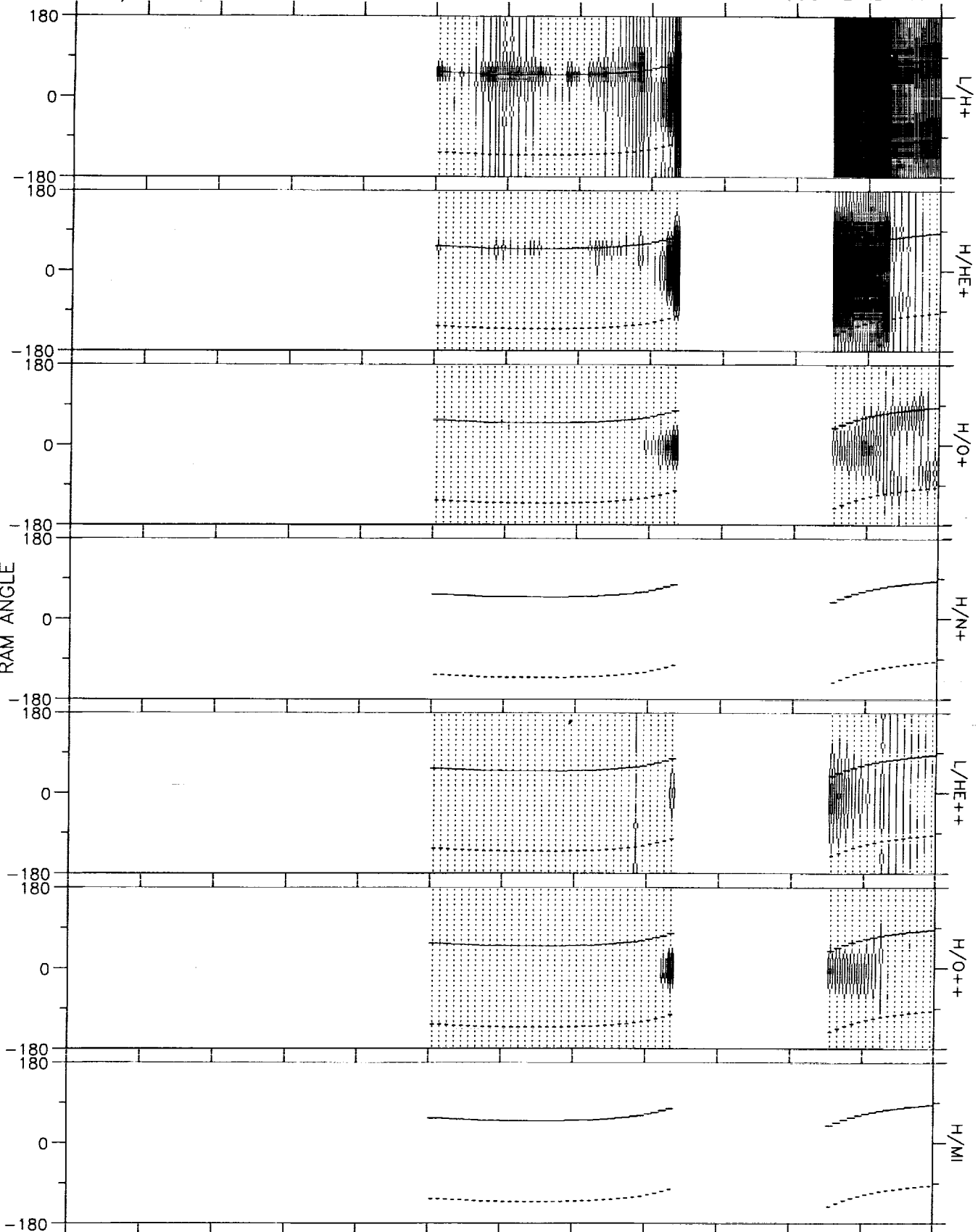
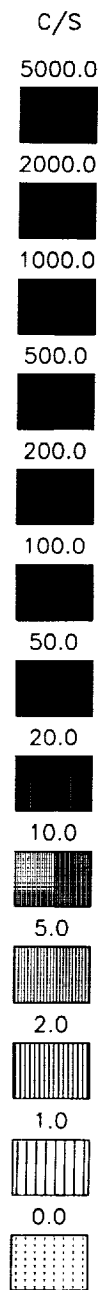
DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Fri Sep 3 15:40:27 1993

82/005 05-JAN 1600:00 - 0000:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Fri Sep 3 15:42:33 1993

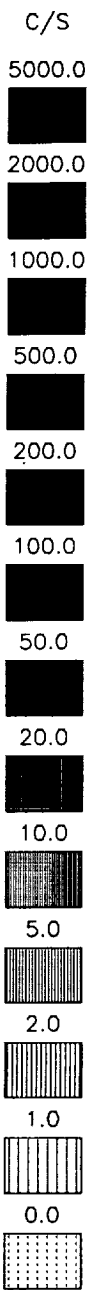
82/005 05-JAN 2315:00 - 0715:00 HEAD= RL RPA= 0 to 1000 BIAS= A



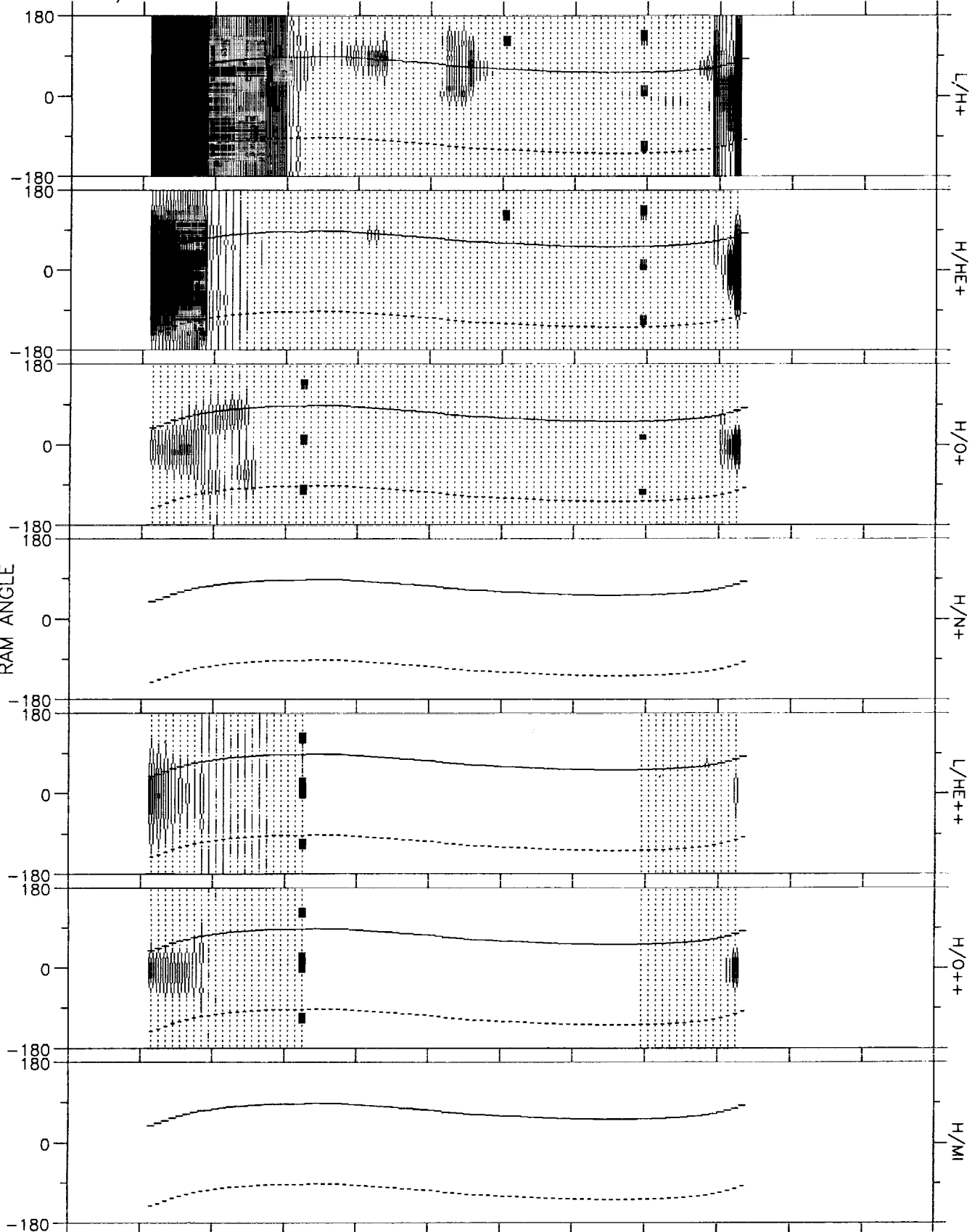
TIME	0000	0000	0000	0000	0235	0315	0355	0435	0000	0000	0635	DEGS
RE	0.0	0.0	0.0	0.0	4.5	4.1	3.4	2.3	0.0	0.0	3.2	HHMM
L	0.0	0.0	0.0	0.0	17.6	43.4	100.0	7.4	0.0	0.0	3.6	RE
MLT	0.0	0.0	0.0	0.0	4.8	6.1	11.0	14.6	0.0	0.0	3.9	
MLAT	0.00	0.00	0.00	0.00	60.26	72.48	78.73	54.97	0.00	0.00	17.91	HRS
INVLAT	0.0	0.0	0.0	0.0	76.2	81.3	84.7	68.4	0.0	0.0	58.3	DEGS

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Fri Sep 3 16:01:36 1993

82/006 06-JAN 0530:00 - 1330:00 HEAD= RL RPA= 0 to 1000 BIAS= A



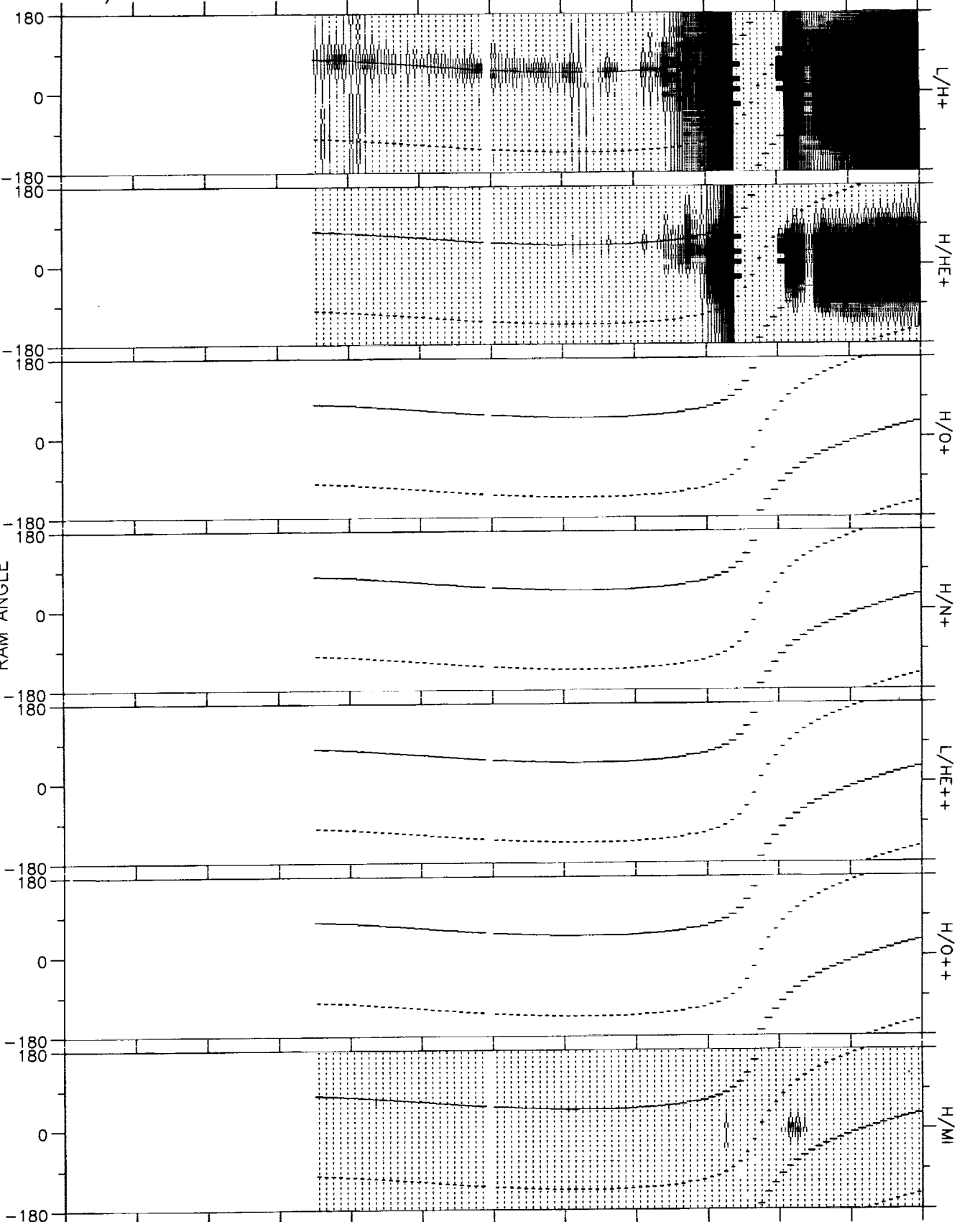
RAM ANGLE



TIME	0000	0650	0730	0810	0850	0930	1010	1050	1130	0000	0000	DEGS
RE	0.0	3.6	4.2	4.6	4.7	4.5	4.1	3.3	2.2	0.0	0.0	HHMM
L	0.0	4.4	7.3	12.3	22.2	51.0	100.0	86.7	5.5	0.0	0.0	RE
MLT	0.0	3.9	4.0	3.9	3.7	3.1	0.8	18.2	16.6	0.0	0.0	
MLAT	0.00	25.53	40.92	52.78	63.14	73.08	82.65	77.41	49.60	0.00	0.00	HRS
INVLAT	0.0	61.5	68.3	73.4	77.8	81.9	86.5	83.8	64.7	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Fri Sep 3 16:03:34 1993

82/006 06-JAN 1230:00 - 2030:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	1510	1550	1630	1710	1750	1830	1910	1950	DEGS
RE	0.0	0.0	0.0	4.6	4.6	4.4	3.9	3.1	1.9	1.2	2.5	HHMM
L	0.0	0.0	0.0	7.8	10.7	15.9	32.6	100.0	5.2	34.7	2.8	RE
MLT	0.0	0.0	0.0	3.0	2.8	2.5	2.1	23.1	15.9	13.8	3.4	
MLAT	0.00	0.00	0.00	40.08	48.45	57.45	68.53	82.75	55.34	*****	*****	HRS
INVLAT	0.0	0.0	0.0	69.1	72.2	75.5	79.9	86.2	64.0	80.1	53.6	DEGS

DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Fri Sep 3 16:05:37 1993

82/006 06-JAN 1915:00 - 0315:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

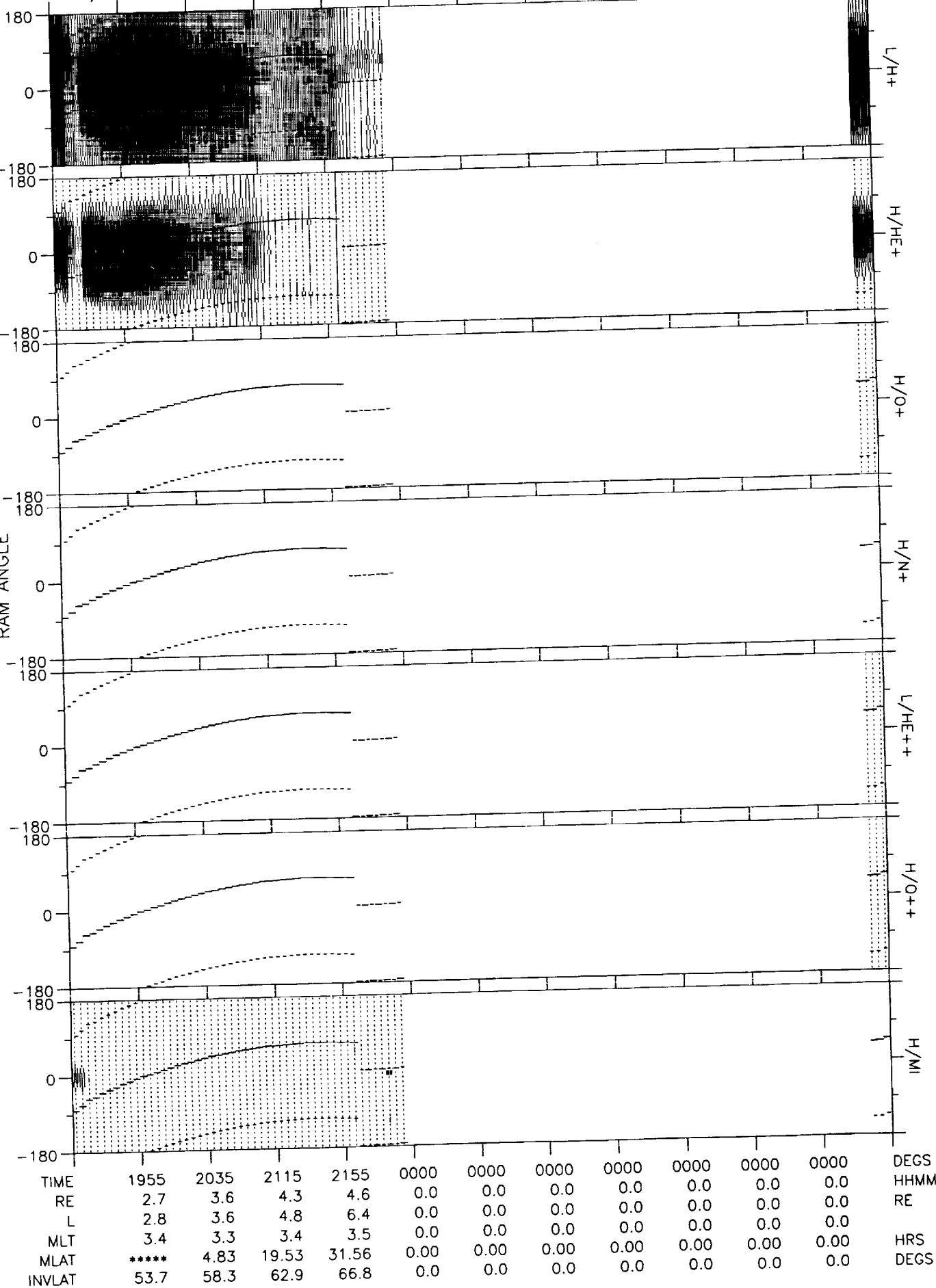
5.0

2.0

1.0

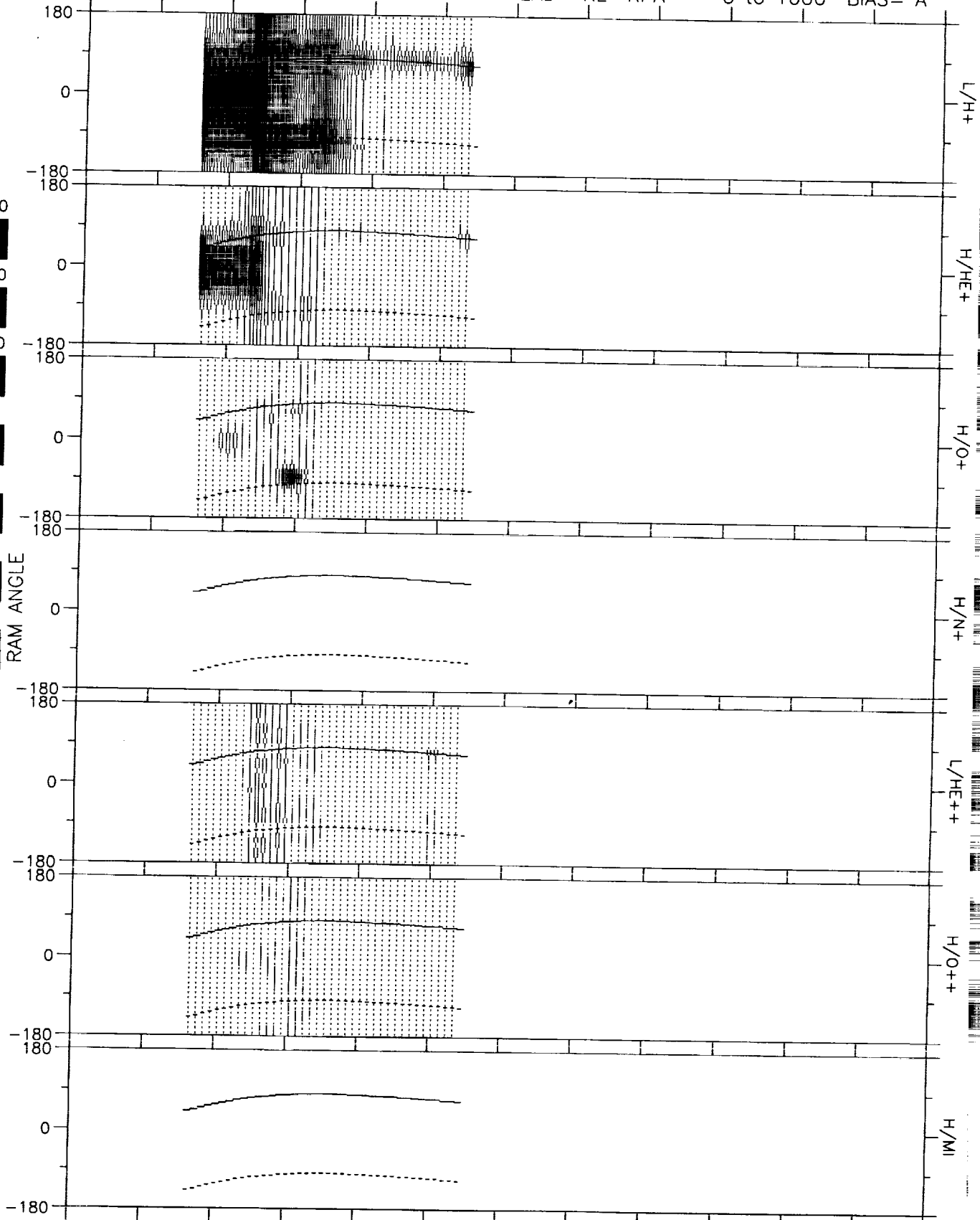
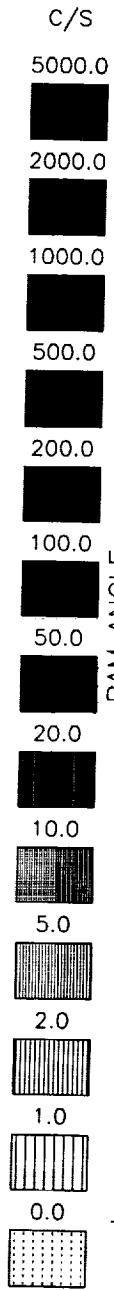
0.0

RAM ANGLE



DE RIMS SPIN SUMMARY
SPIN/RADIALALL (V1.0)
Fri Sep 3 16:07:36 1993

82/007 07-JAN 0200:00 - 1000:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0320	0400	0440	0520	0000	0000	0000	0000	0000	0000	DEGS
RE	0.0	3.5	4.2	4.6	4.7	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	0.0	3.8	5.8	9.1	15.7	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	0.0	3.6	3.9	4.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	0.00	16.56	33.25	46.50	58.43	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	0.0	59.1	65.4	70.7	75.4	0.0	0.0	0.0	0.0	0.0	0.0	DEGS

DE RMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Fri Sep 3 16:10:23 1993

82/007 07-JAN 0900:00 - 1700:00 HEAD= RL RPA= 0 to 1000 BIAS= A

c/s

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

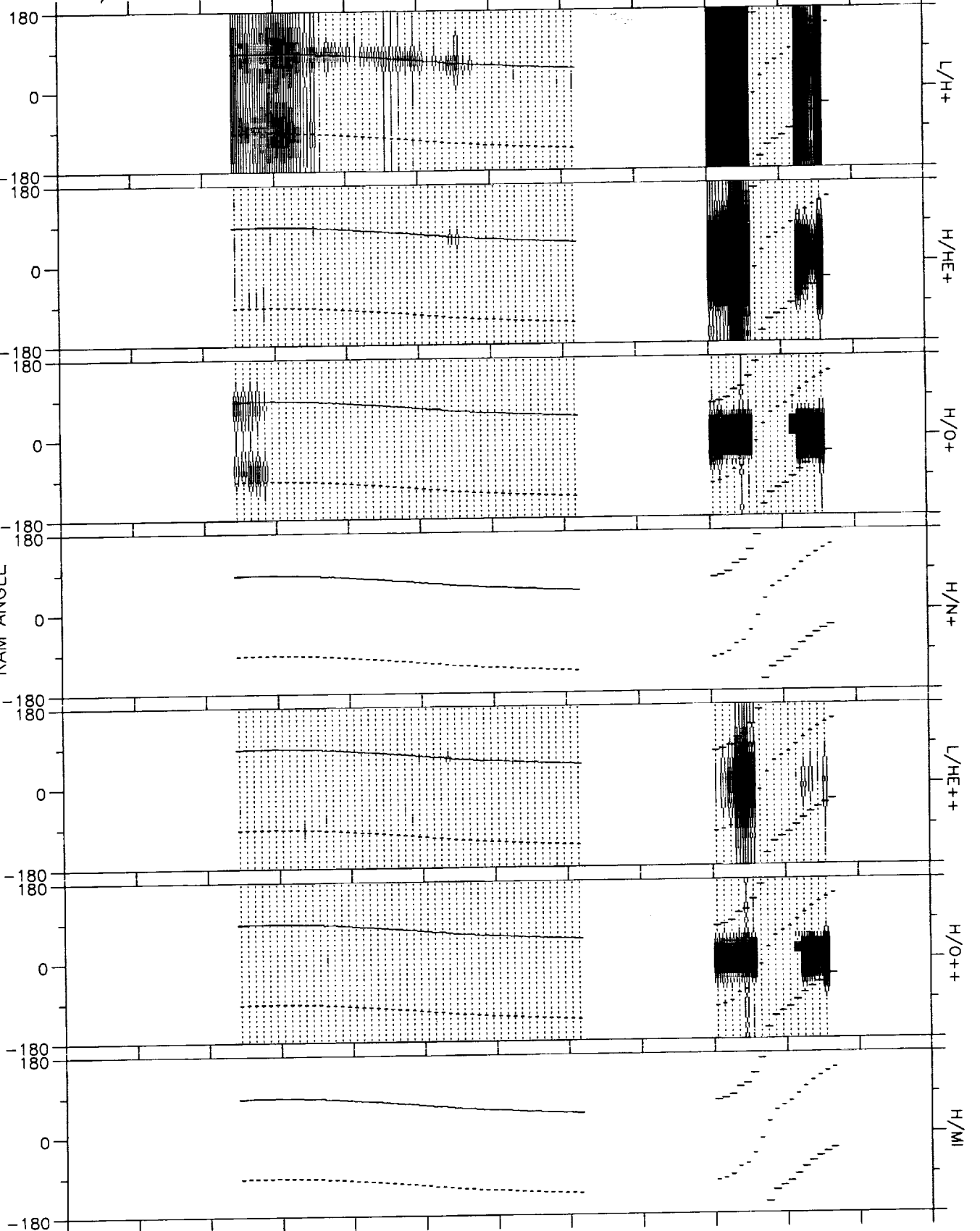
5.0

2.0

1.0

0.0

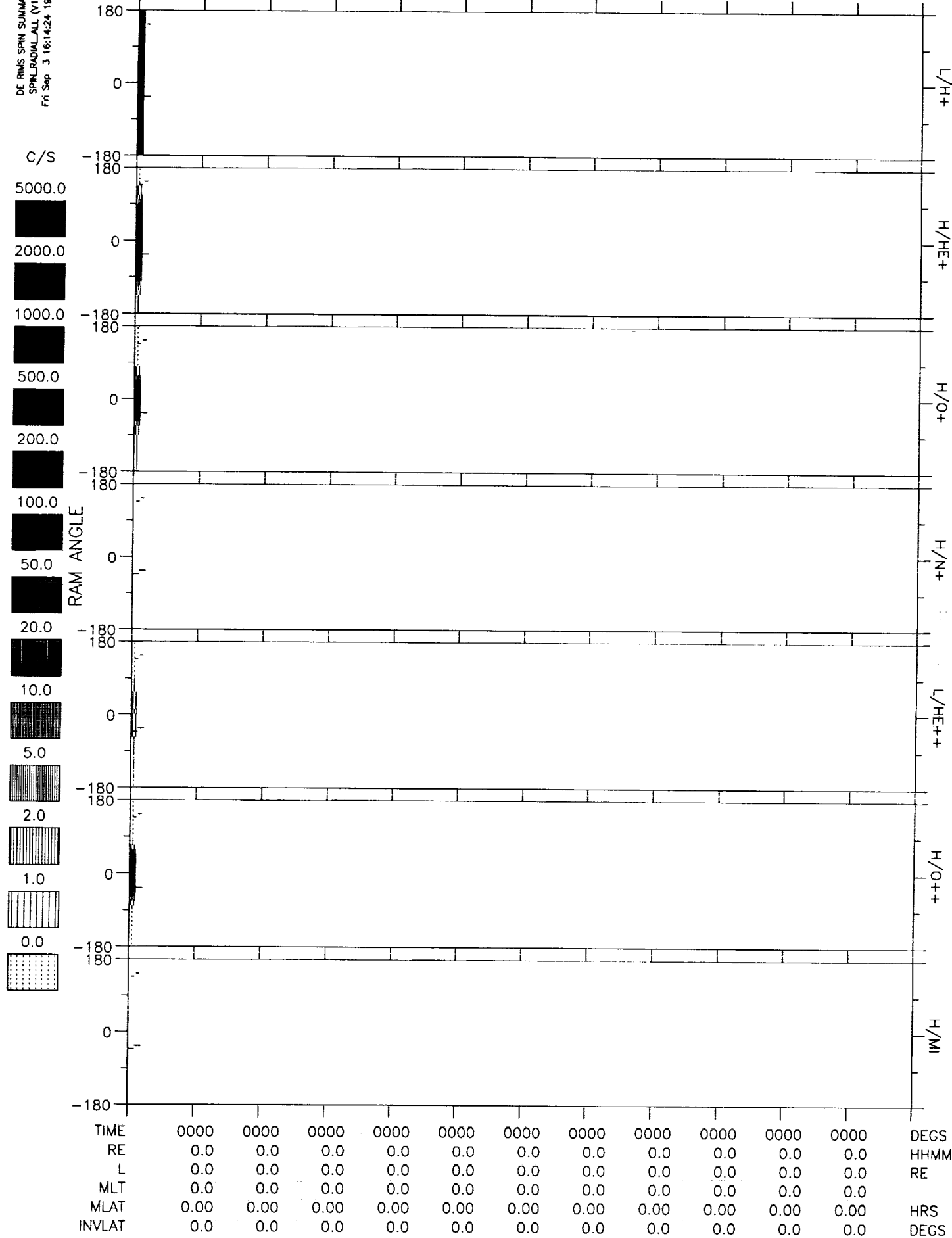
RAM ANGLE



TIME	0000	0000	1100	1140	1220	1300	1340	0000	1500	1540	0000	DEGS
RE	0.0	0.0	4.3	4.6	4.7	4.4	4.0	0.0	2.0	1.2	0.0	HHMM
L	0.0	0.0	7.2	10.7	15.9	26.0	57.8	0.0	4.3	11.2	0.0	RE
MLT	0.0	0.0	3.4	3.1	2.7	2.1	0.8	0.0	16.5	12.5	0.0	HRS
MLAT	0.00	0.00	39.60	49.06	57.27	65.32	73.92	0.00	50.49	*****	0.00	DEGS
INVLAT	0.0	0.0	68.2	72.2	75.5	78.7	82.4	0.0	61.3	72.6	0.0	

DE RMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Fri Sep 3 16:14:24 1993

82/007 07-JAN 1600:00 - 0000:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN_RADIALALL (V1.0)
Fri Sep 3 16:16:36 1993

82/007 07-JAN 2315:00 - 0715:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

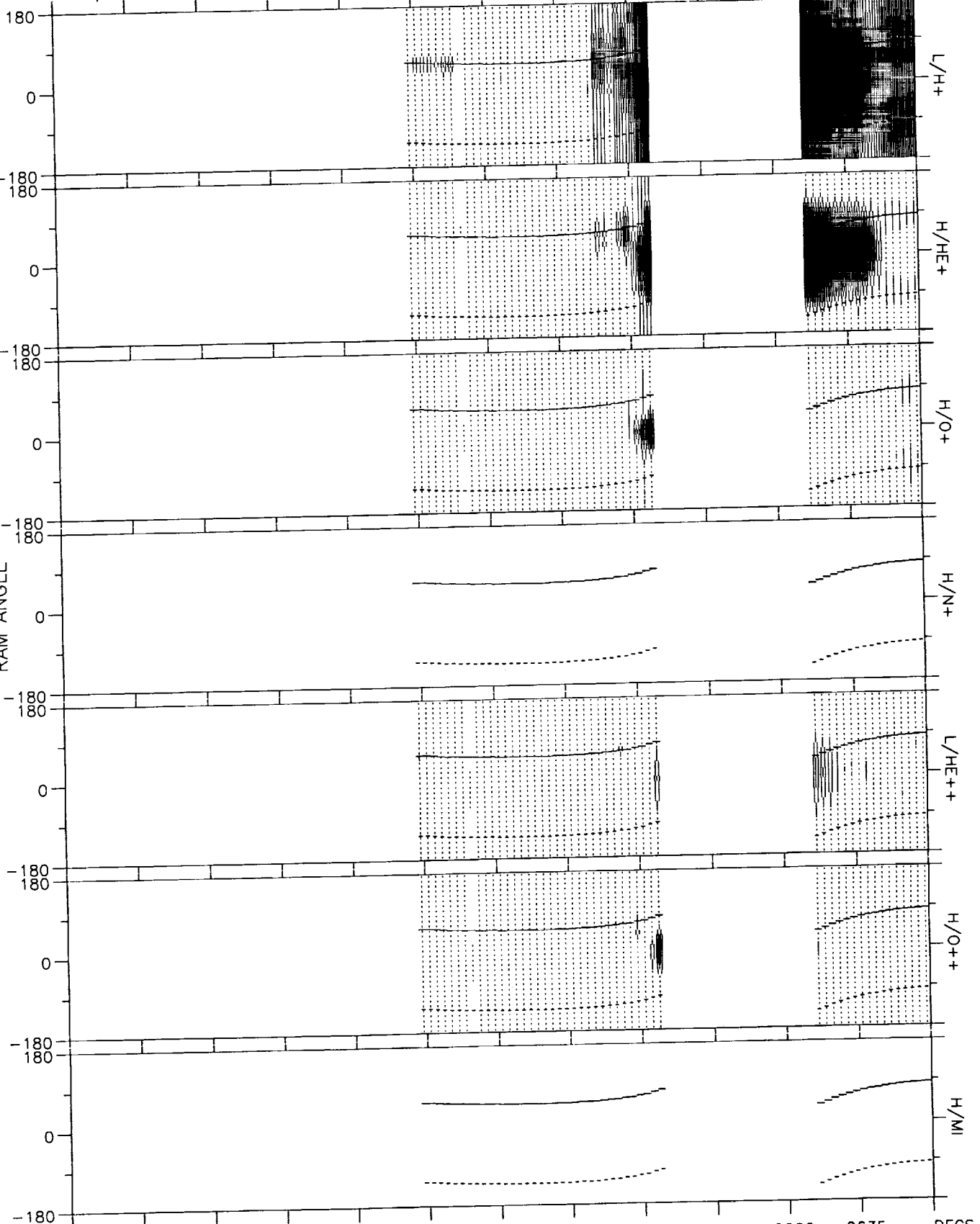
5.0

2.0

1.0

0.0

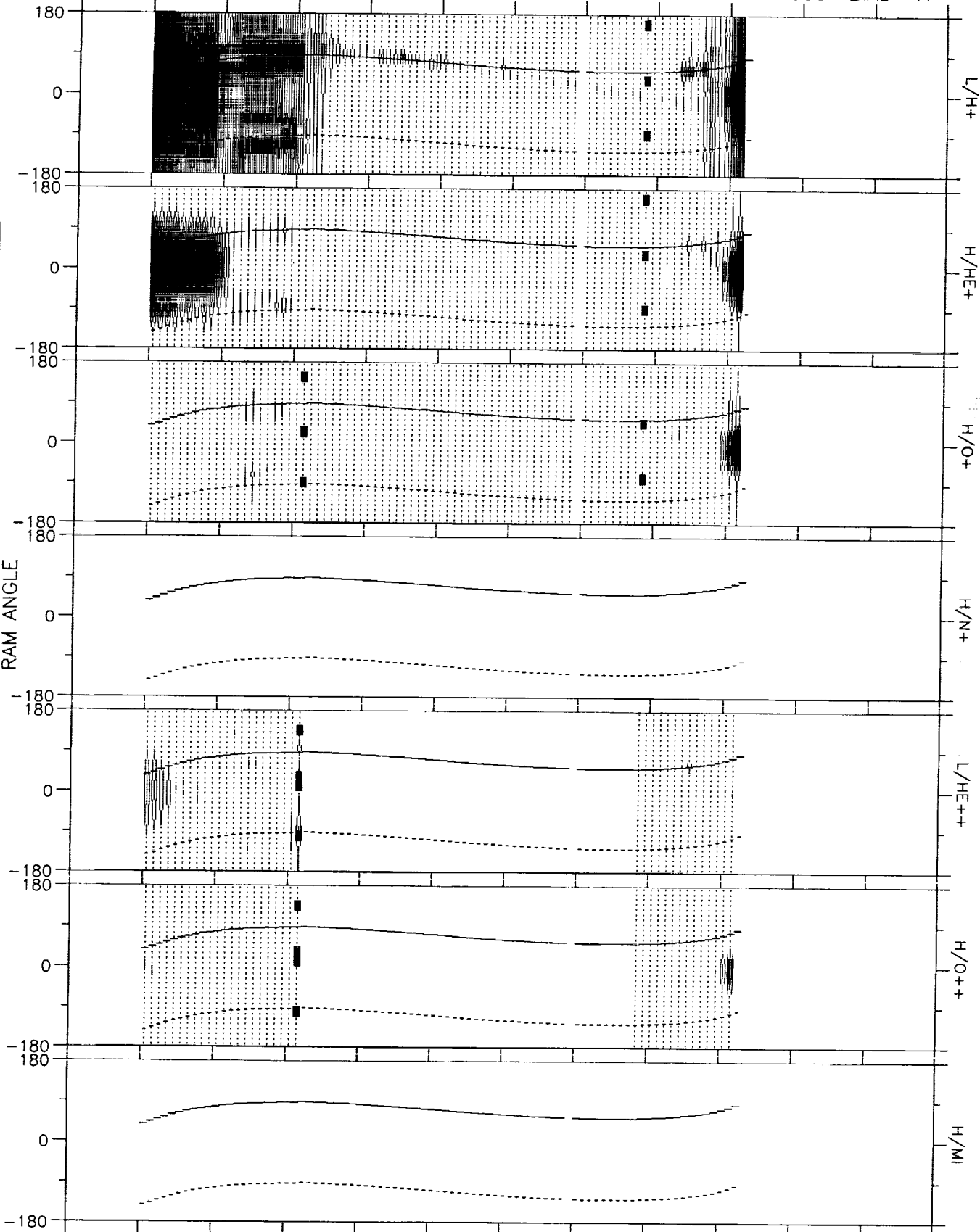
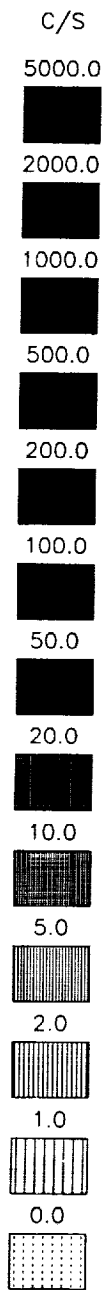
RAM ANGLE



TIME	0000	0000	0000	0000	0235	0315	0355	0435	0000	0000	0635	DEGS
RE	0.0	0.0	0.0	0.0	4.5	4.1	3.3	2.2	0.0	0.0	3.3	HHMM
L	0.0	0.0	0.0	0.0	18.4	47.6	-0.0	5.6	0.0	0.0	3.8	RE
MLT	0.0	0.0	0.0	0.0	4.7	6.1	11.4	14.7	0.0	0.0	3.7	
MLAT	0.00	0.00	0.00	0.00	61.12	73.43	78.08	50.75	0.00	0.00	19.64	HRS
INVLAT	0.0	0.0	0.0	0.0	76.5	81.7	-0.0	65.1	0.0	0.0	59.1	DEGS

DE RIMS SPIN SUMMARY
SPIN-RADIALALL (V1.0)
Fri Sep 3 16:19:58 1993

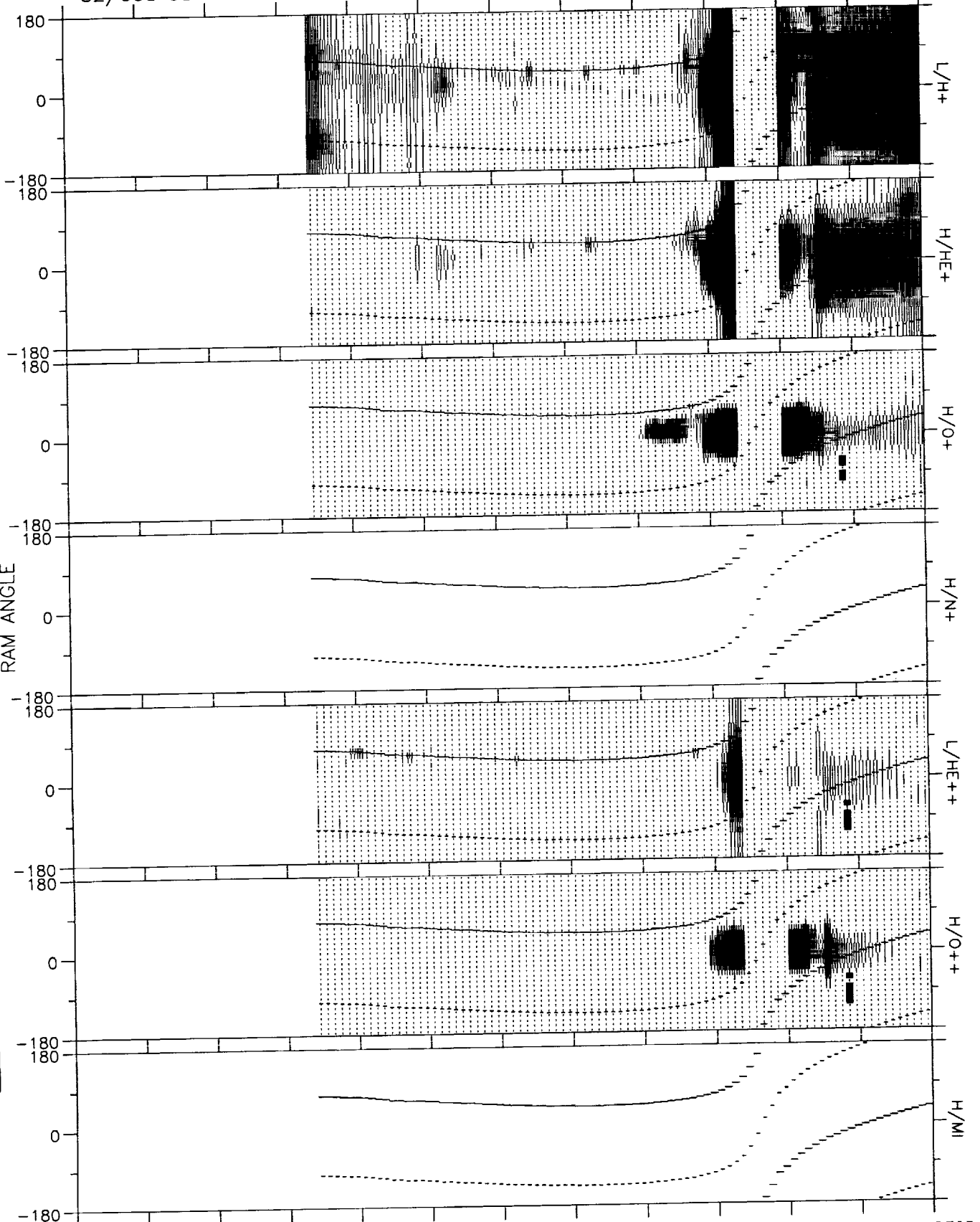
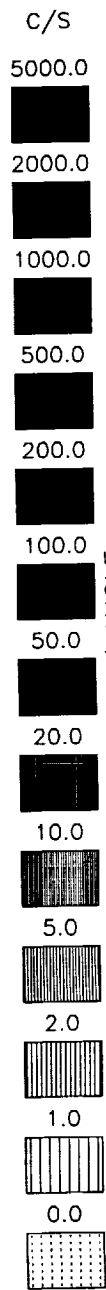
82/008 08-JAN 0530:00 - 1330:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0610	0650	0730	0810	0850	0930	1010	1050	1130	0000	0000	DEGS
RE	2.7	3.7	4.3	4.6	4.7	4.5	4.0	3.2	2.0	0.0	0.0	HHMM
L	2.8	4.6	7.6	12.6	22.8	52.7	100.0	67.3	4.3	0.0	0.0	RE
MLT	3.6	3.8	3.8	3.7	3.5	2.9	0.2	17.9	16.4	0.0	0.0	
MLAT	3.66	26.86	41.68	53.28	63.52	73.40	82.79	76.09	45.17	0.00	0.00	HRS
INVLAT	53.2	62.2	68.7	73.7	77.9	82.1	86.6	83.0	61.1	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Fri Sep 3 16:21:51 1993

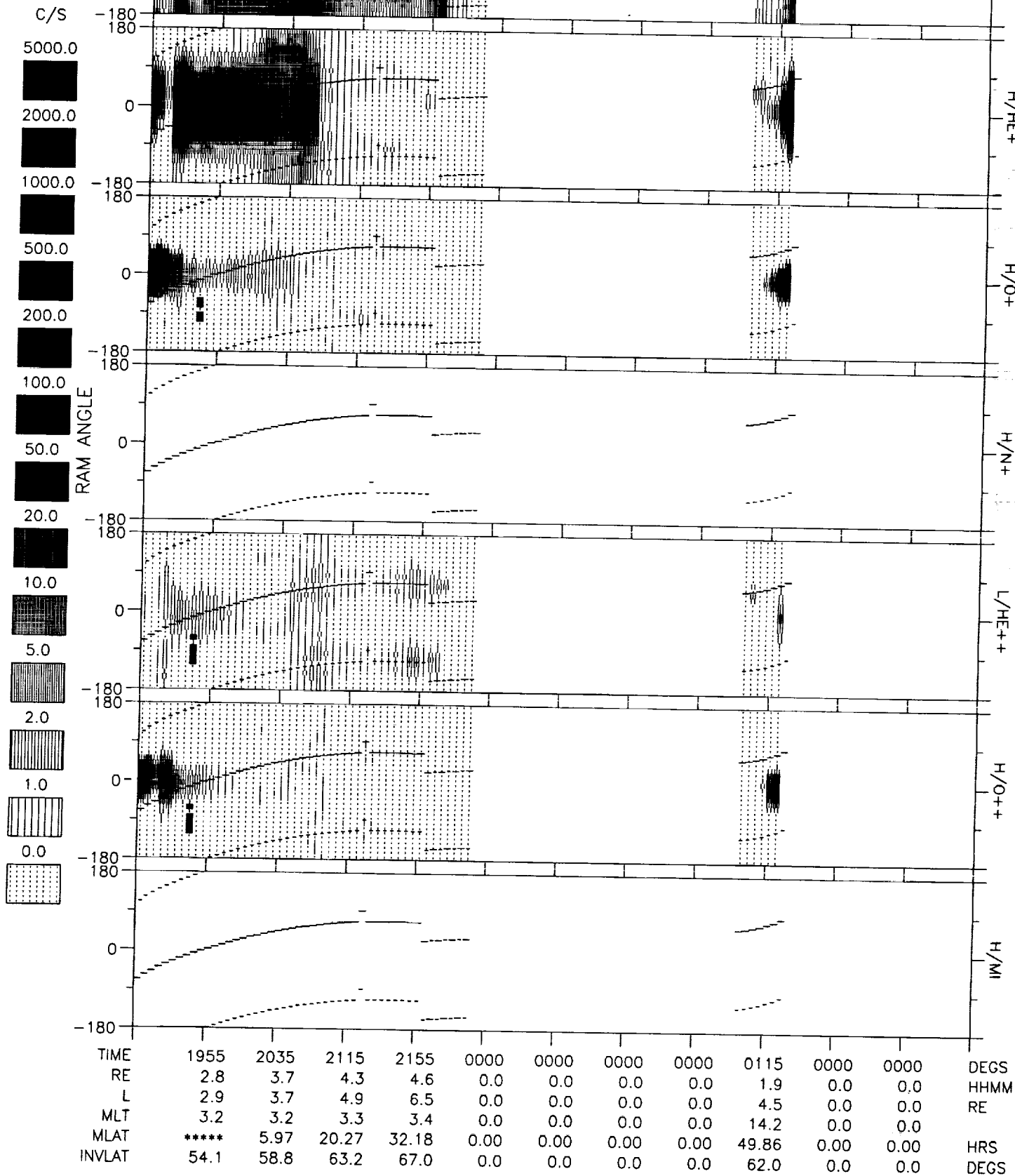
82/008 08-JAN 1230:00 - 2030:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	1510	1550	1630	1710	1750	1830	1910	1950	DEGS
RE	0.0	0.0	0.0	4.6	4.6	4.4	3.8	3.0	1.7	1.3	2.7	HHMM
L	0.0	0.0	0.0	7.9	10.7	16.1	34.5	100.0	3.7	-0.0	2.9	RE
MLT	0.0	0.0	0.0	2.9	2.7	2.4	1.9	22.1	15.6	4.5	3.2	HRS
MLAT	0.00	0.00	0.00	40.18	48.59	57.77	69.26	83.55	48.73	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	69.1	72.2	75.5	80.2	86.3	58.5	-0.0	53.8	

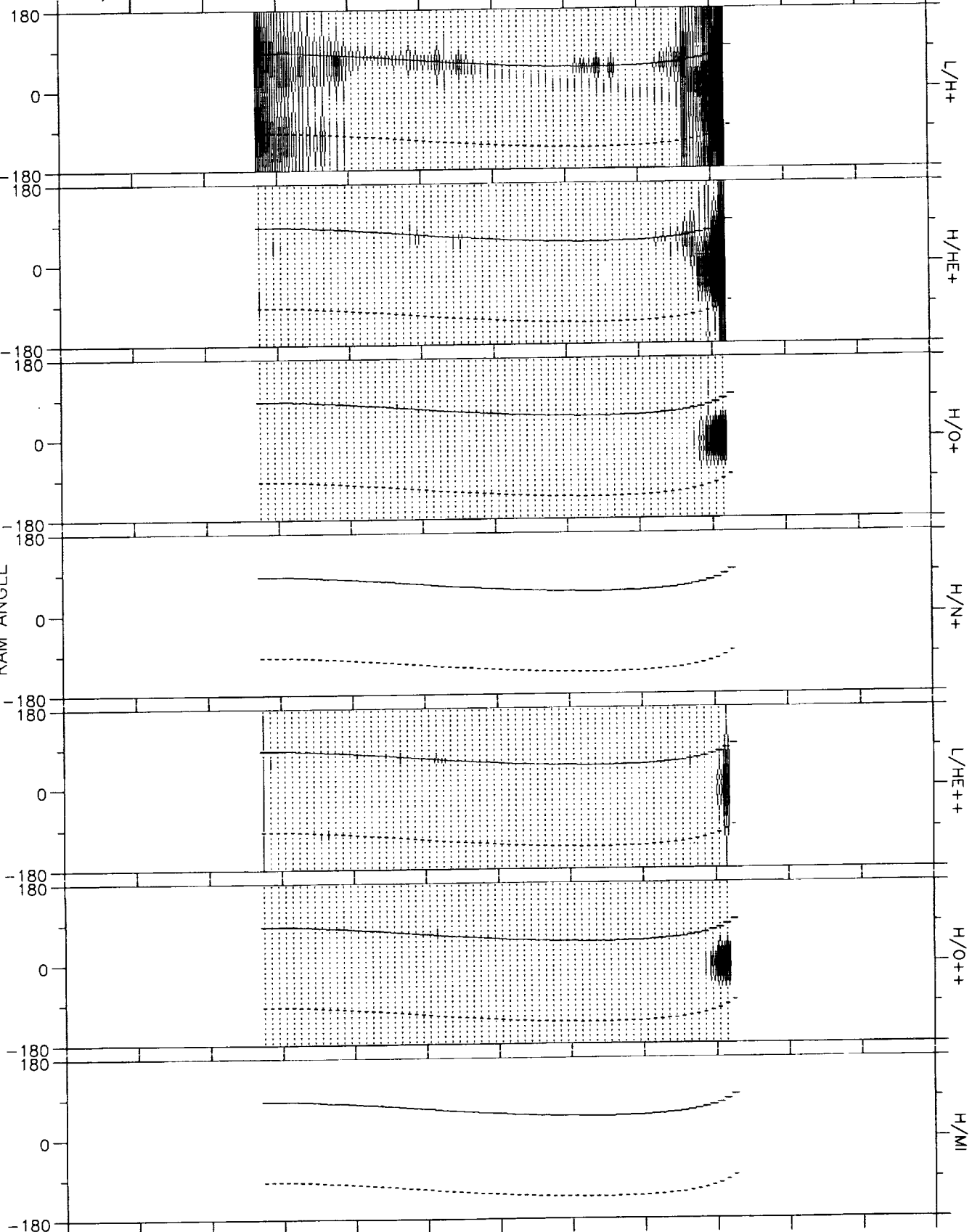
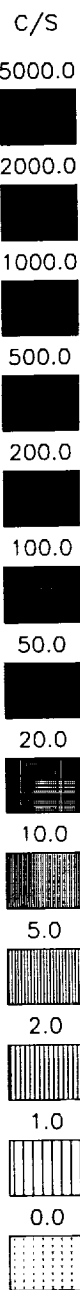
DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Fri Sep 3 16:24:15 1993

82/008 08-JAN 1915:00 - 0315:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RINS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Fri Sep 3 16:27:44 1993

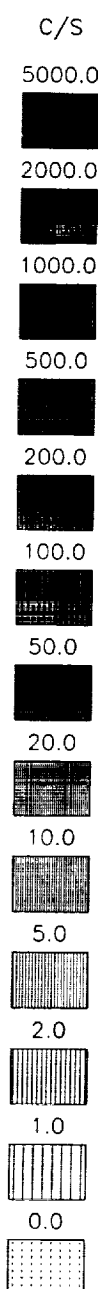
82/009 09-JAN 0900:00 - 1700:00 HEAD= RL RPA= 0 to 1000 BIAS= A



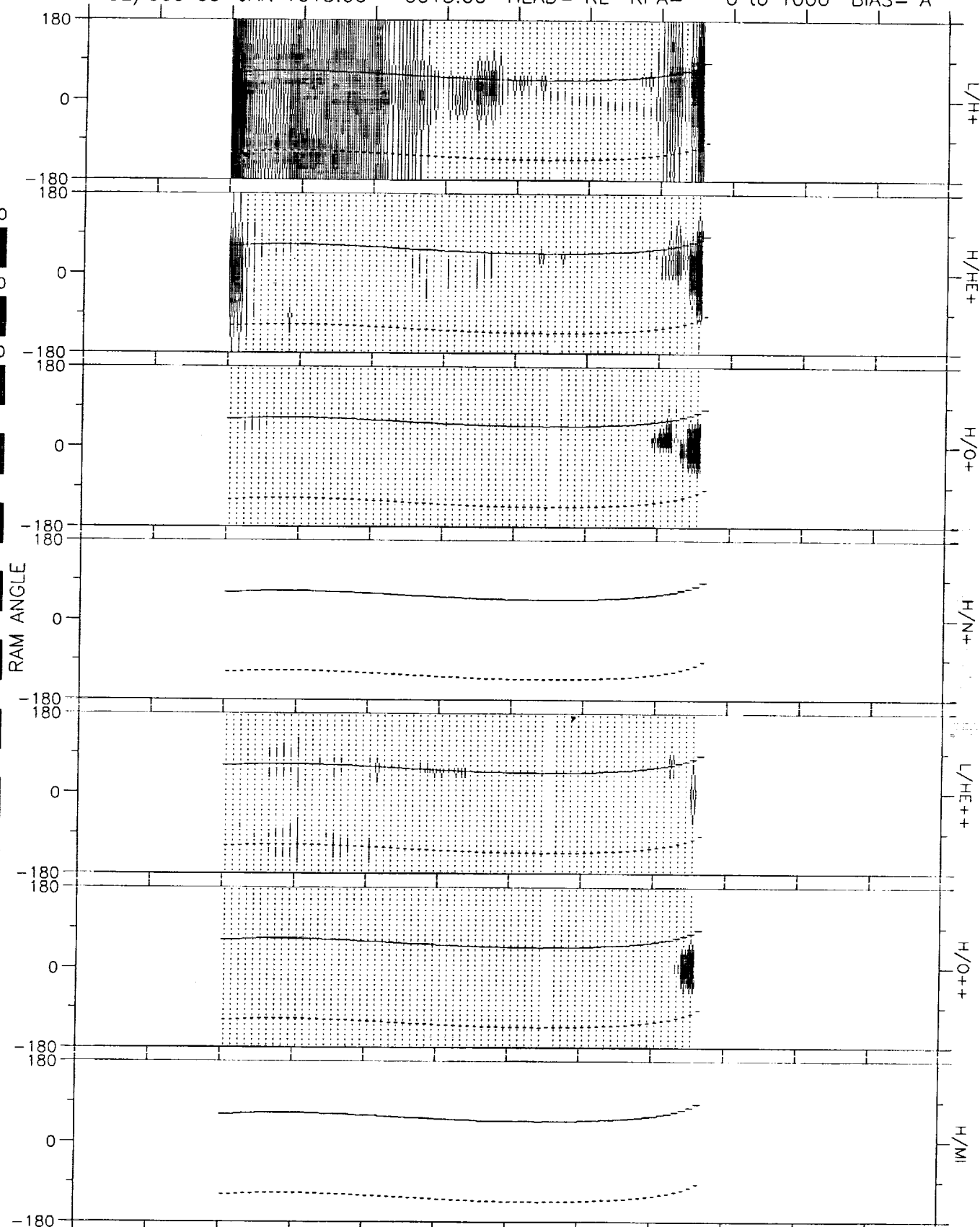
TIME	0000	0000	1100	1140	1220	1300	1340	1420	1500	0000	0000	DEGS
RE	0.0	0.0	4.3	4.6	4.6	4.4	3.9	3.0	1.8	0.0	0.0	HHMM
L	0.0	0.0	7.4	10.8	15.9	26.1	59.8	70.6	3.2	0.0	0.0	RE
MLT	0.0	0.0	3.3	3.0	2.5	1.9	0.5	19.8	16.2	0.0	0.0	HRS
MLAT	0.00	0.00	39.93	49.18	57.32	65.45	74.25	77.28	45.04	0.00	0.00	DEGS
INVLAT	0.0	0.0	68.4	72.3	75.5	78.7	82.6	83.2	56.3	0.0	0.0	

DE RMS SPIN SUMMARY
SPIN_RADIALALL (V1.0)
Mon Dec 6 09:07:38 1993

82/009 09-JAN 1615:00 - 0015:00 HEAD= RL RPA= 0 to 1000 BIAS= A



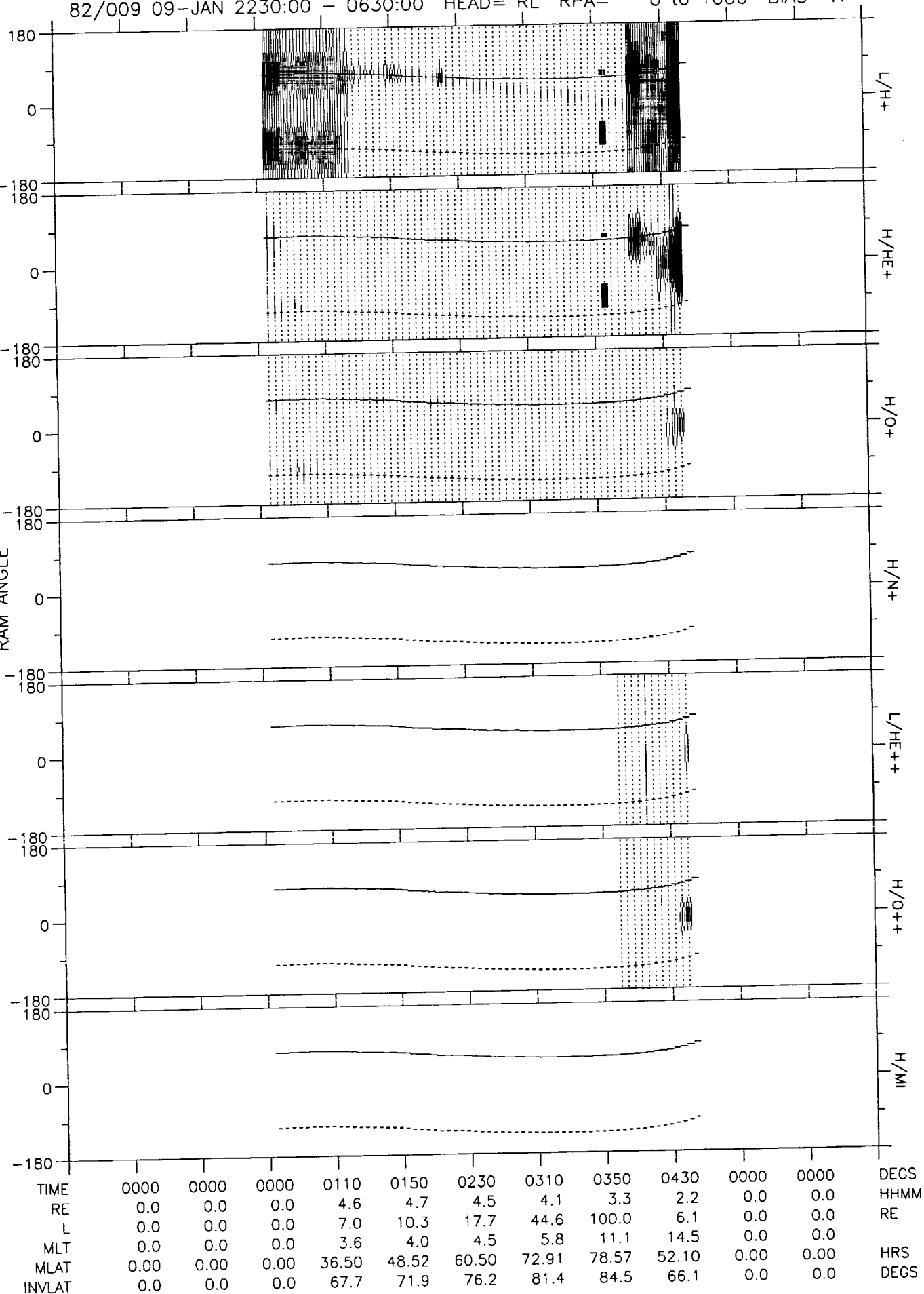
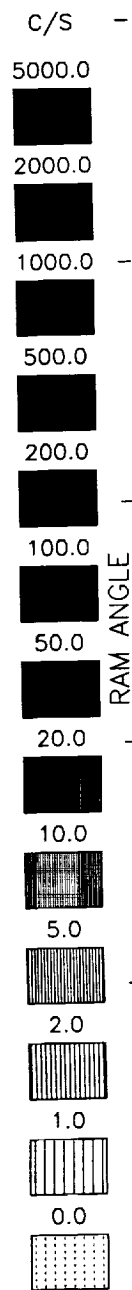
RAM ANGLE



TIME	0000	1735	1815	1855	1935	2015	2055	2135	0000	0000	0000	HHMM
RE	0.0	4.2	4.5	4.7	4.5	4.1	3.4	2.3	0.0	0.0	0.0	RE
L	0.0	4.5	5.9	7.8	10.9	18.6	76.6	31.4	0.0	0.0	0.0	
MLT	0.0	3.1	3.0	3.0	3.1	3.2	3.9	13.9	0.0	0.0	0.0	HRS
MLAT	0.00	17.76	28.56	38.46	48.73	60.66	76.51	74.39	0.00	0.00	0.00	DEGS
INVLAT	0.0	62.0	65.7	69.0	72.3	76.6	83.4	79.7	0.0	0.0	0.0	DEGS

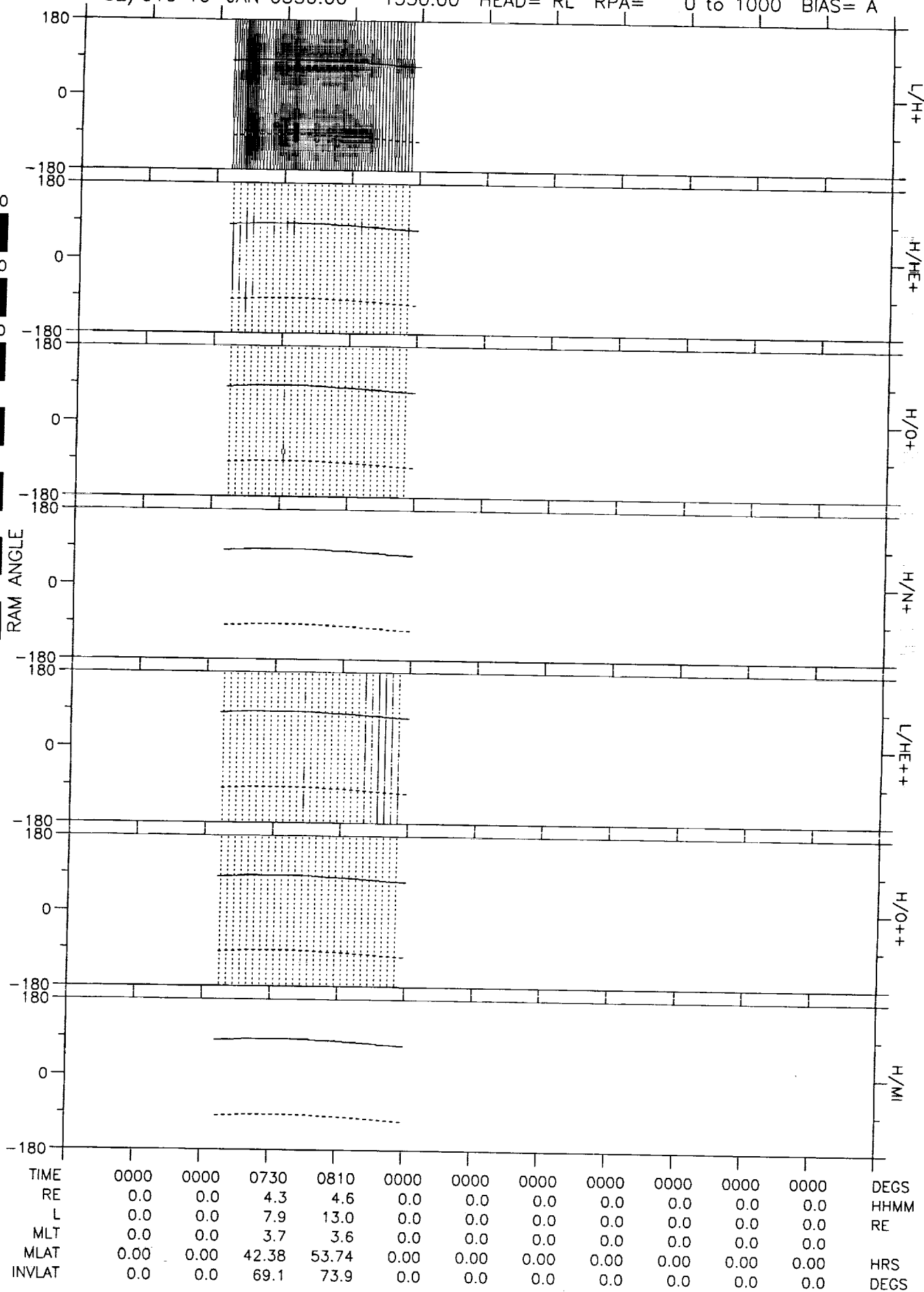
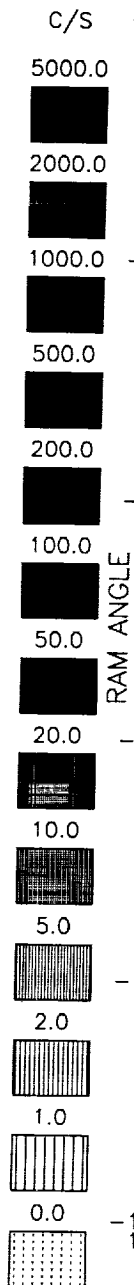
DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Sun Sep 5 14:13:49 1993

82/009 09-JAN 2230:00 - 0630:00 HEAD= RL RPA= 0 to 1000 BIAS= A



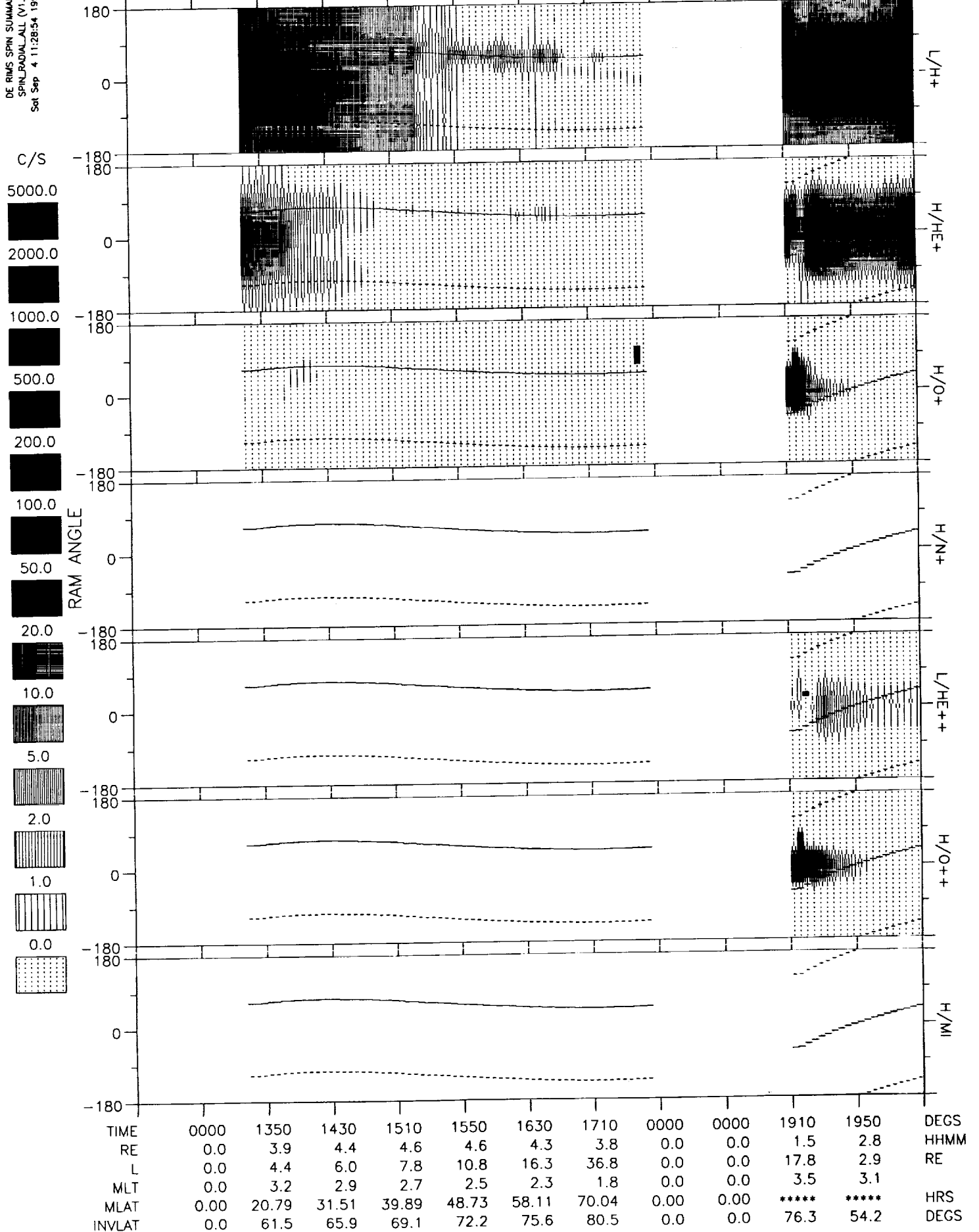
DE RMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Sat Sep 4 11:27:30 1993

82/010 10-JAN 0530:00 - 1330:00 HEAD= RL RPA= 0 to 1000 BIAS= A



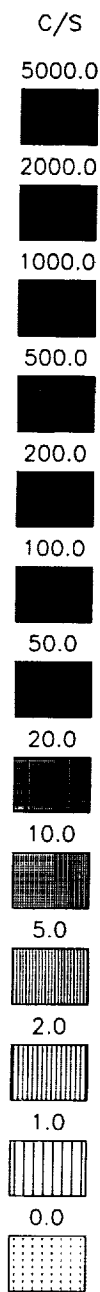
DE RIMS SPIN SUMMARY
SPINRADIAL.ALL (V1.0)
Sat Sep 4 11:28:54 1993

82/010 10-JAN 1230:00 - 2030:00 HEAD= RL RPA= 0 to 1000 BIAS= A

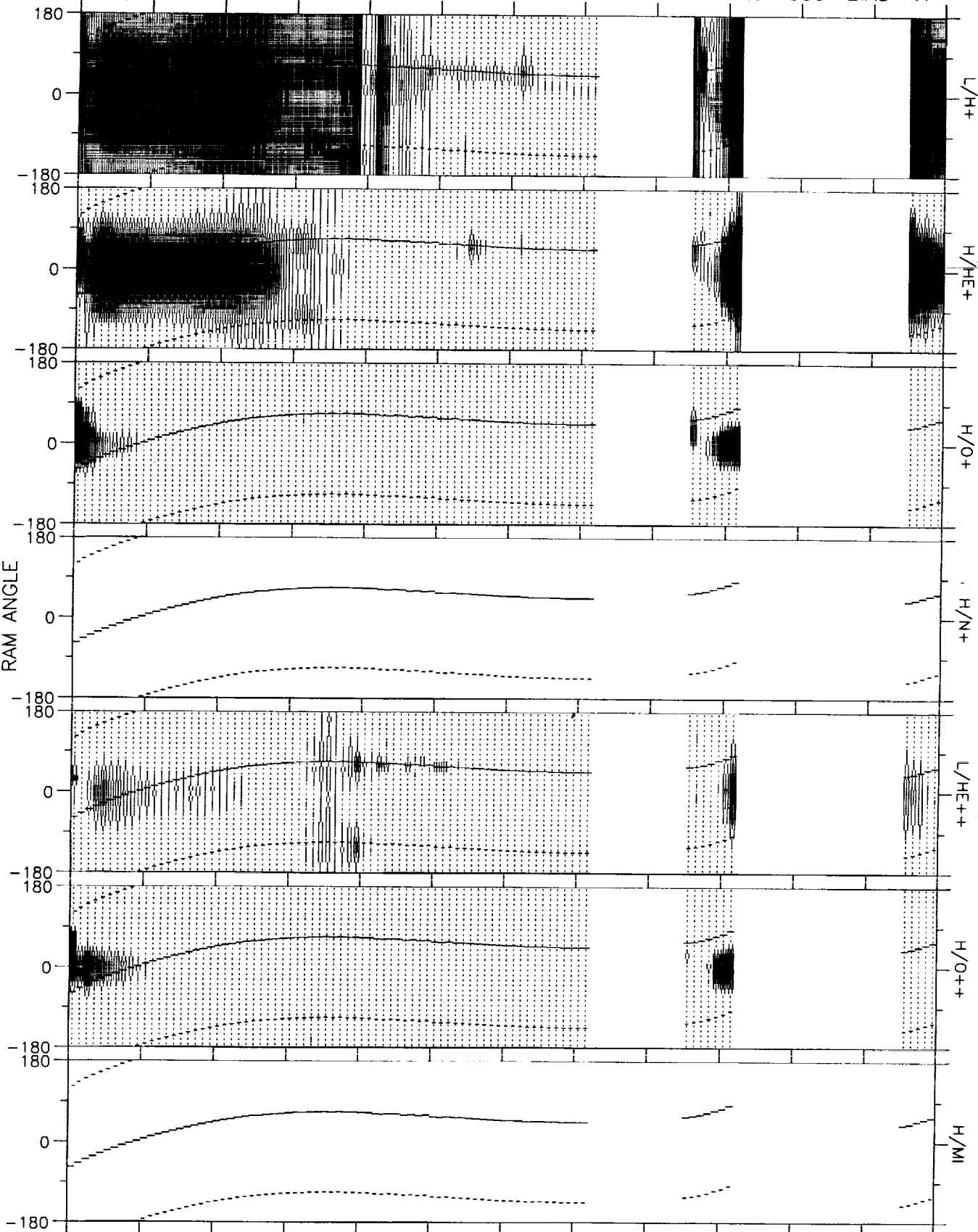


DE RMS SPIN SUMMARY
SPIN/RADIAL (V1.0)
Sat Sep 4 11:31:01 1993

82/010 10-JAN 1915:00 - 0315:00 HEAD= RL RPA= 0 to 1000 BIAS= A



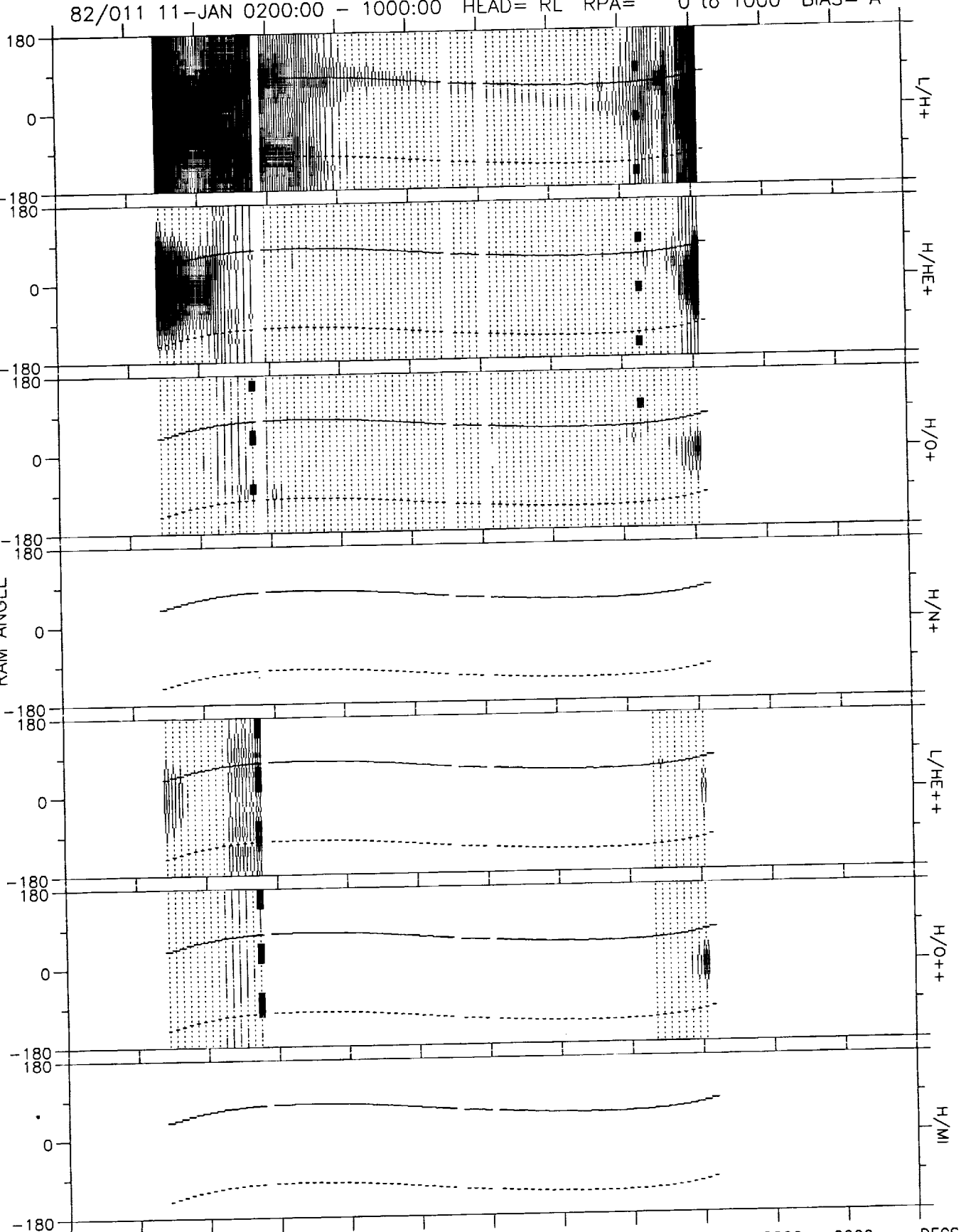
RAM ANGLE



TIME	1955	2035	2115	2155	2235	2315	2355	0000	0115	0000	0000	DEGS
RE	2.9	3.8	4.4	4.6	4.6	4.4	3.9	0.0	1.8	0.0	0.0	HHMM
L	3.0	3.8	5.0	6.7	9.2	14.4	33.1	0.0	3.3	0.0	0.0	RE
MLT	3.1	3.1	3.1	3.3	3.5	3.9	4.8	0.0	14.2	0.0	0.0	
MLAT	*****	7.09	21.02	32.82	44.10	55.93	69.30	0.00	43.30	0.00	0.00	HRS
INVLAT	54.6	59.2	63.5	67.2	70.8	74.8	80.0	0.0	56.4	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Sat Sep 4 11:33:27 1993

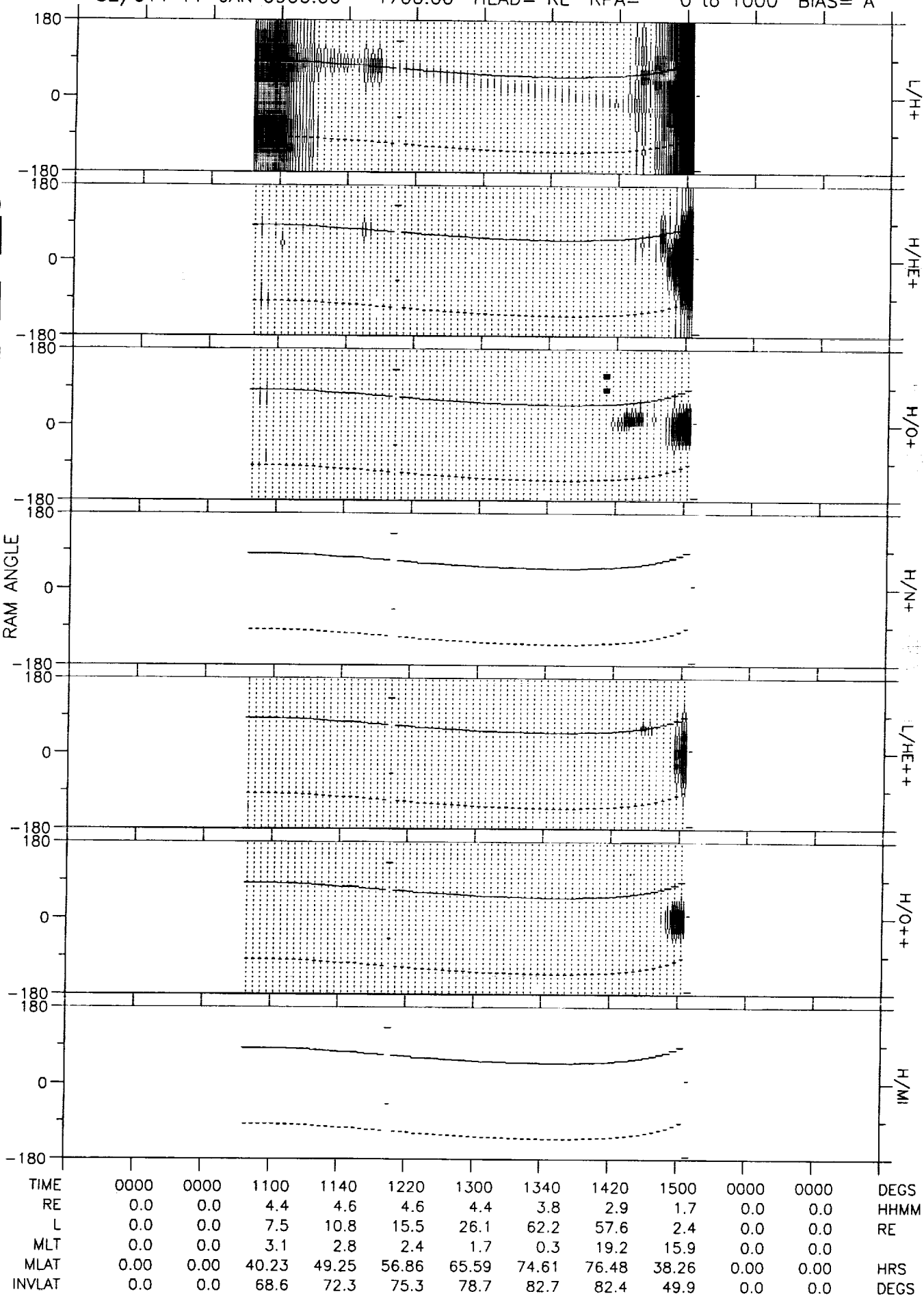
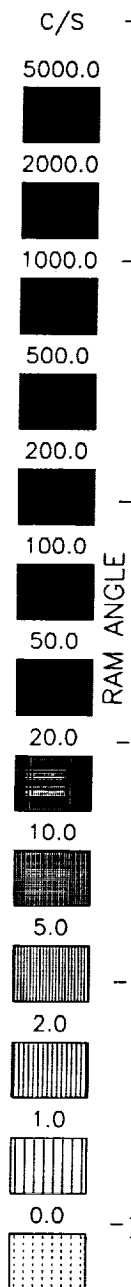
82/011 11-JAN 0200:00 - 1000:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0320	0400	0440	0520	0000	0640	0720	0800	0000	0000	DEGS
RE	0.0	3.7	4.3	4.6	4.7	0.0	4.0	3.2	2.0	0.0	0.0	HHMM
L	0.0	4.1	6.2	9.8	17.1	0.0	100.0	61.4	3.6	0.0	0.0	RE
MLT	0.0	3.3	3.6	3.9	4.1	0.0	6.5	15.0	15.5	0.0	0.0	
MLAT	0.00	19.65	35.29	48.12	59.92	0.00	84.63	75.43	40.20	0.00	0.00	HRS
INVLAT	0.0	60.4	66.3	71.3	76.0	0.0	86.7	82.7	58.3	0.0	0.0	DEGS

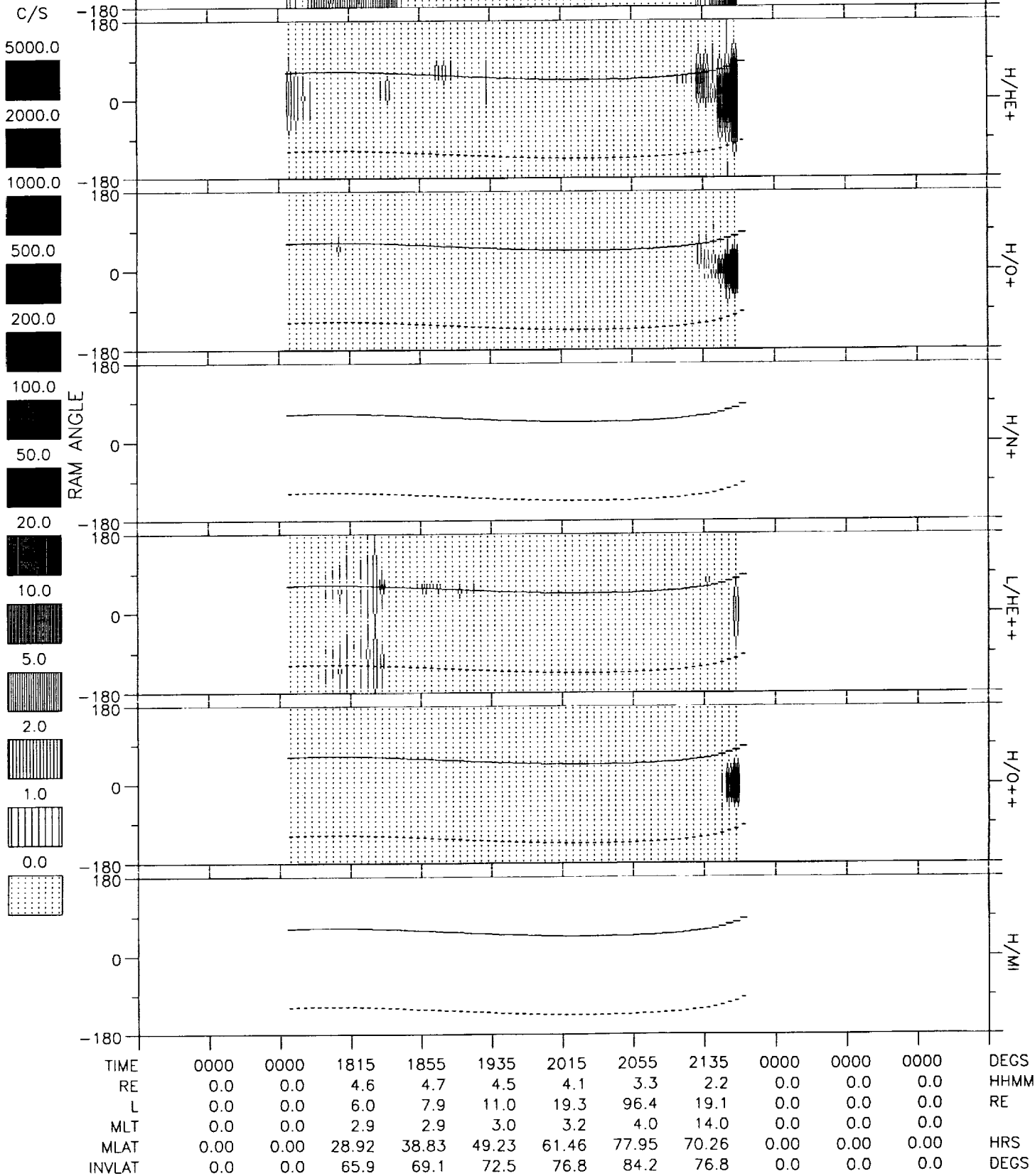
DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Sat Sep 4 11:35:14 1993

82/011 11-JAN 0900:00 - 1700:00 HEAD= RL RPA= 0 to 1000 BIAS= A



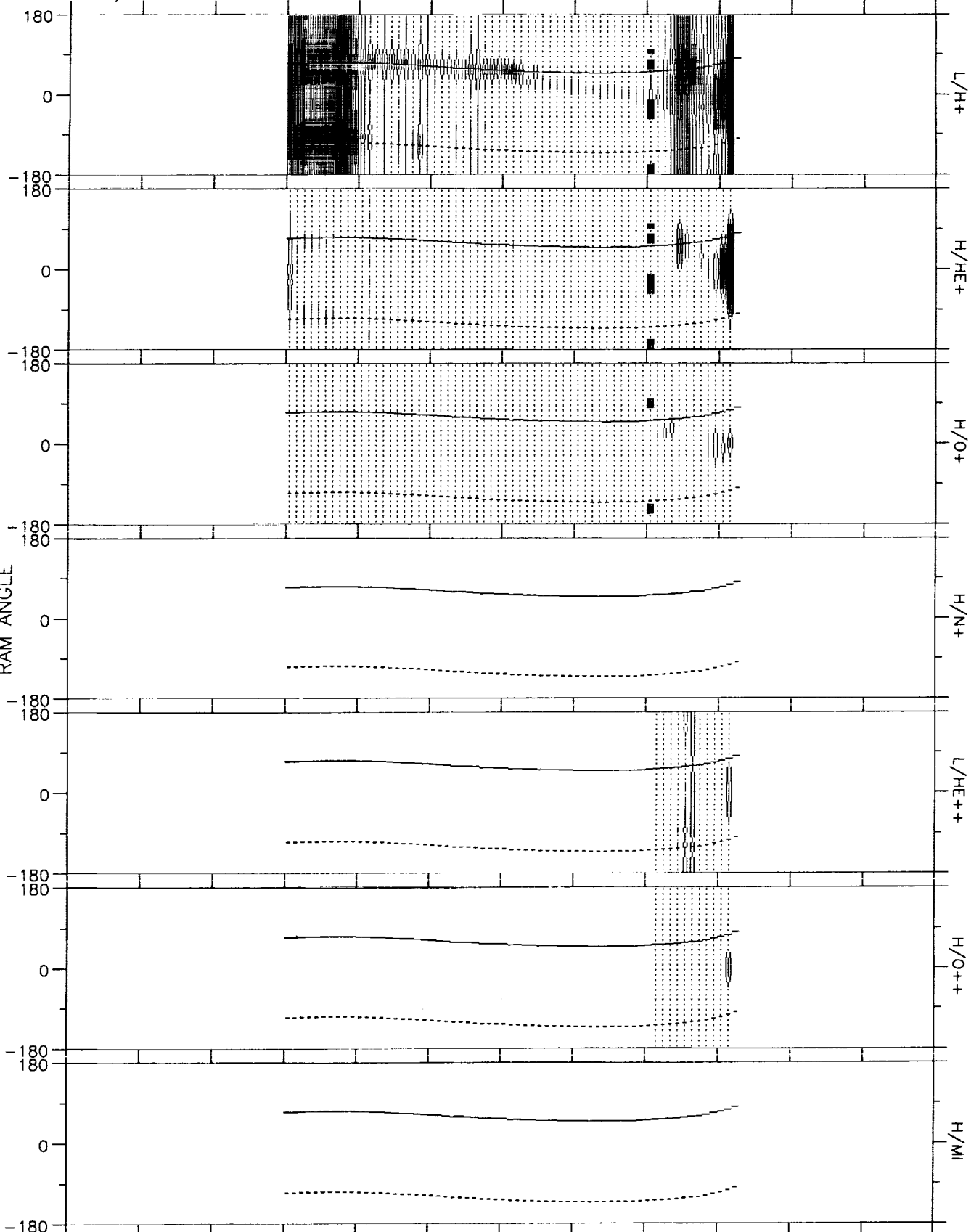
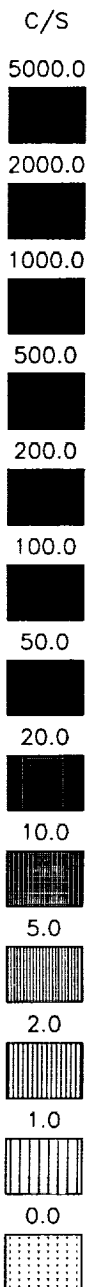
DE RMS SPIN SUMMARY
SPIN_RADIAL.ALL (V1.0)
Sat Sep 4 11:36:58 1993

82/011 11-JAN 1615:00 - 0015:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Sat Sep 4 11:38:42 1993

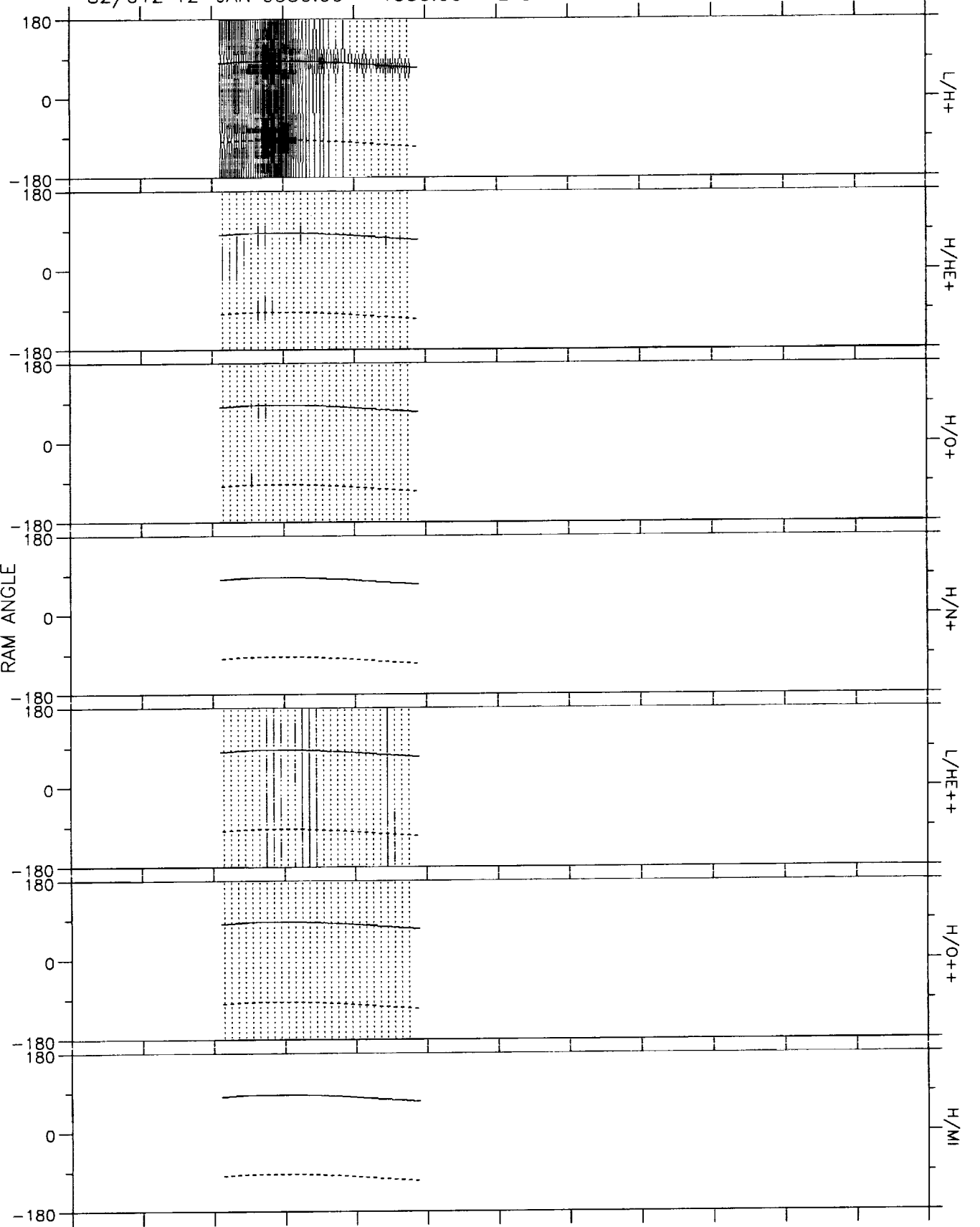
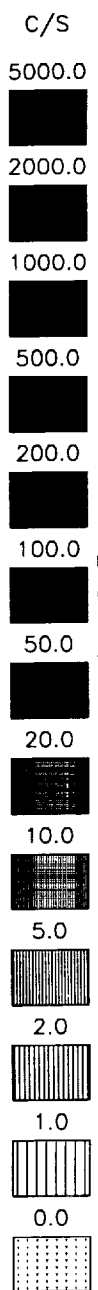
82/011 11-JAN 2230:00 - 0630:00 HEAD= RL RPA= 0 to 1000 BIAS= A



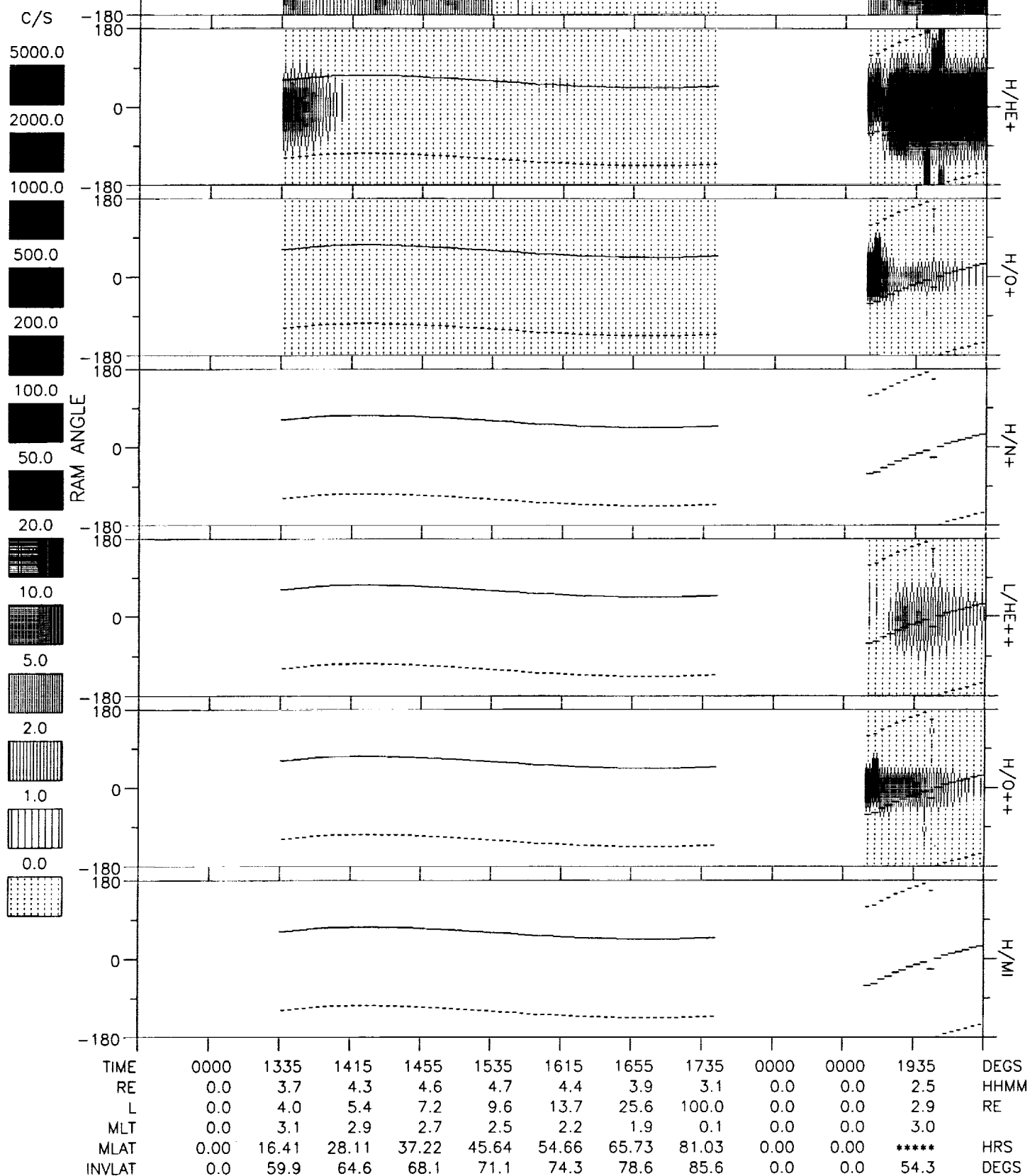
TIME	0000	0000	0030	0110	0150	0230	0310	0350	0430	0000	0000	DEGS
RE	0.0	0.0	4.3	4.6	4.7	4.5	4.0	3.2	2.1	0.0	0.0	HHMM
L	0.0	0.0	5.1	7.1	10.6	18.5	49.1	94.3	4.6	0.0	0.0	RE
MLT	0.0	0.0	3.2	3.5	3.8	4.4	5.8	11.4	14.5	0.0	0.0	
MLAT	0.00	0.00	24.38	37.35	49.35	61.37	73.88	77.90	47.29	0.00	0.00	HRS
INVLAT	0.0	0.0	63.7	68.0	72.1	76.5	81.8	84.1	62.2	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Sat Sep 4 11:40:14 1993

82/012 12-JAN 0530:00 - 1330:00 HEAD= RL RPA= 0 to 1000 BIAS= A

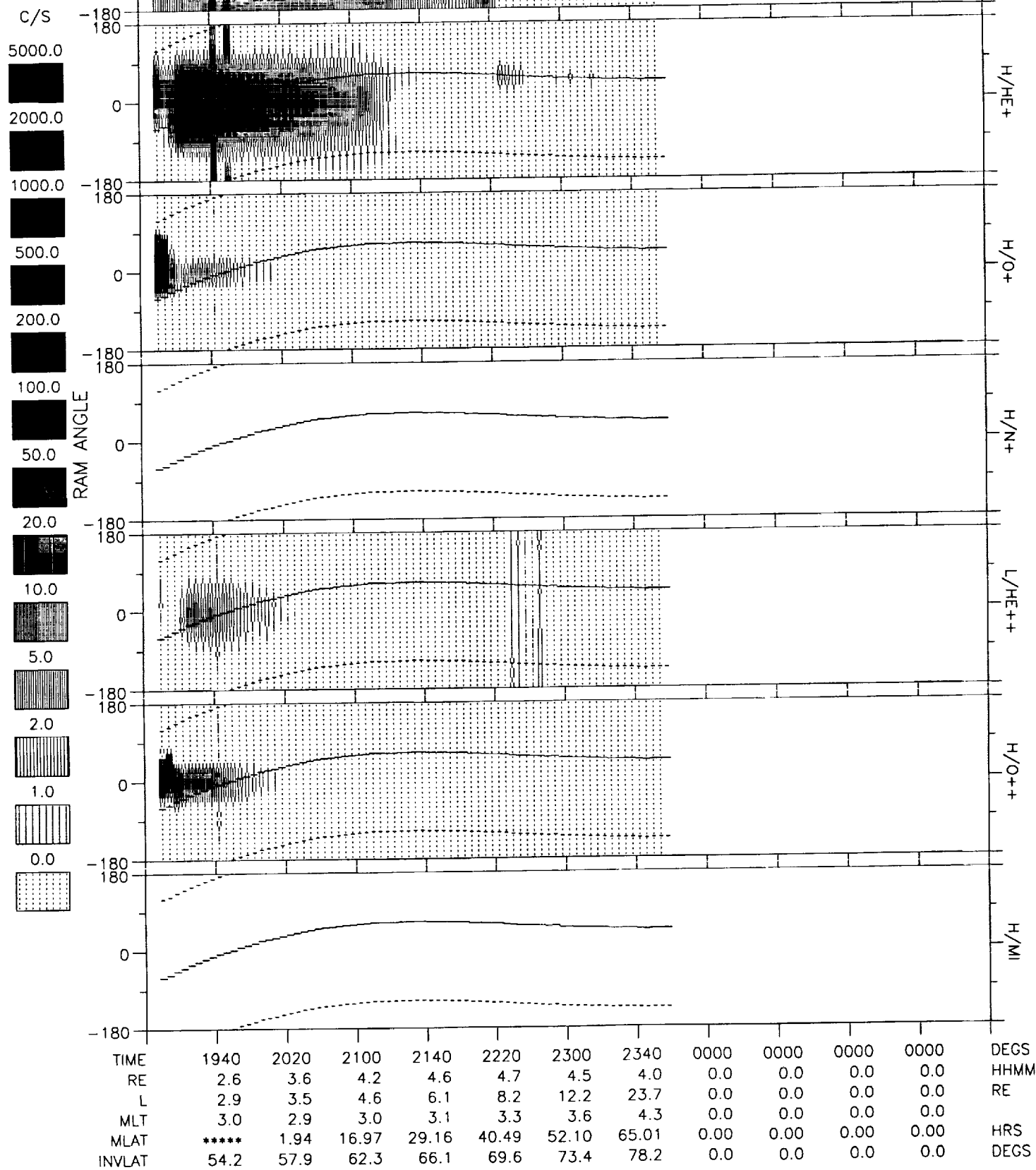


TIME	0000	0000	0730	0810	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	0.0	0.0	4.4	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	0.0	0.0	8.1	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	3.5	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	0.00	0.00	43.08	54.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	69.5	74.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



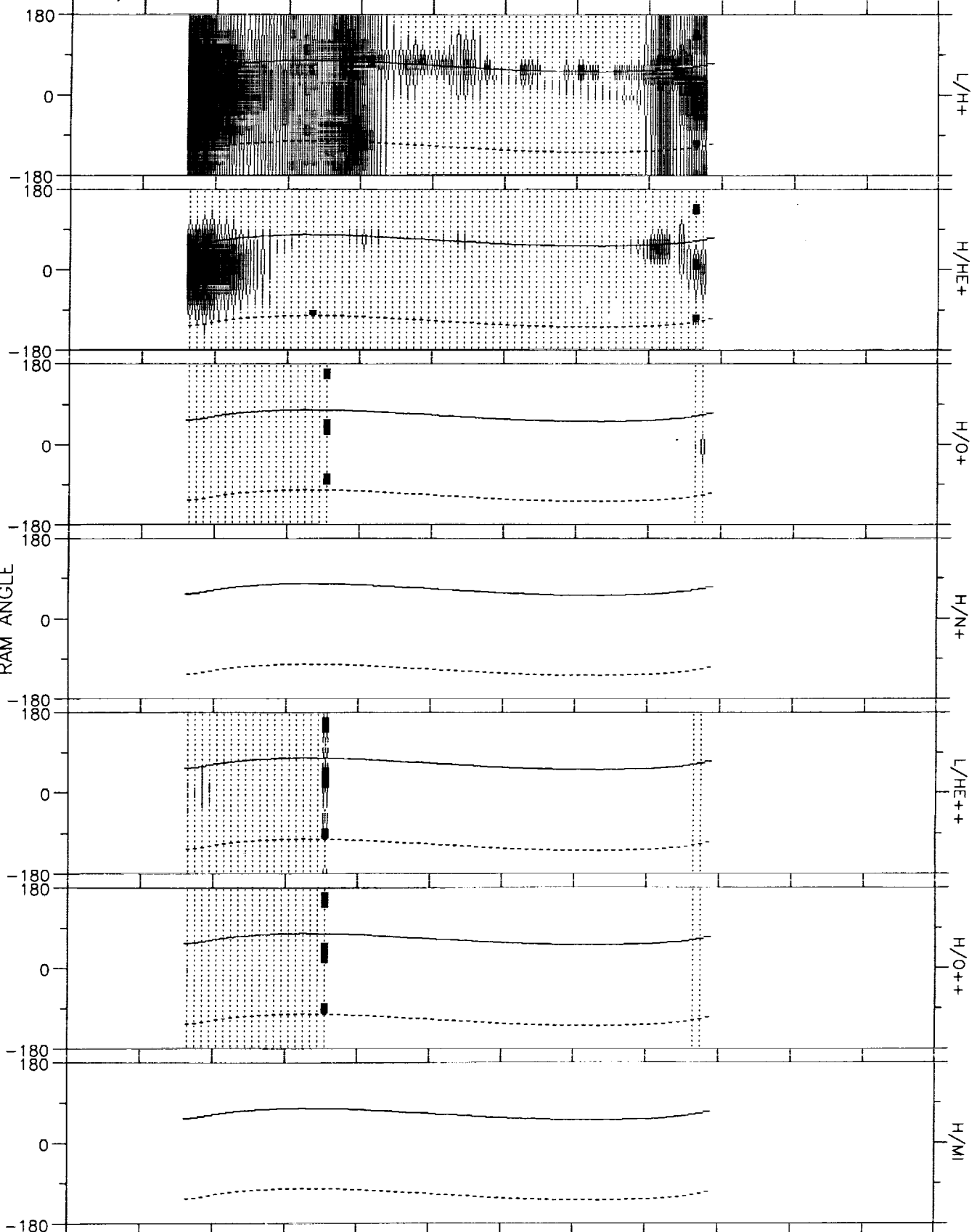
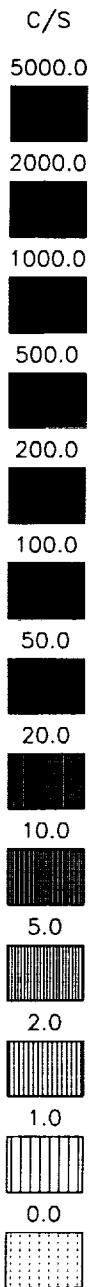
DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Sat Sep 4 11:43:30 1993

82/012 12-JAN 1900:00 - 0300:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Sat Sep 4 11:45:42 1993

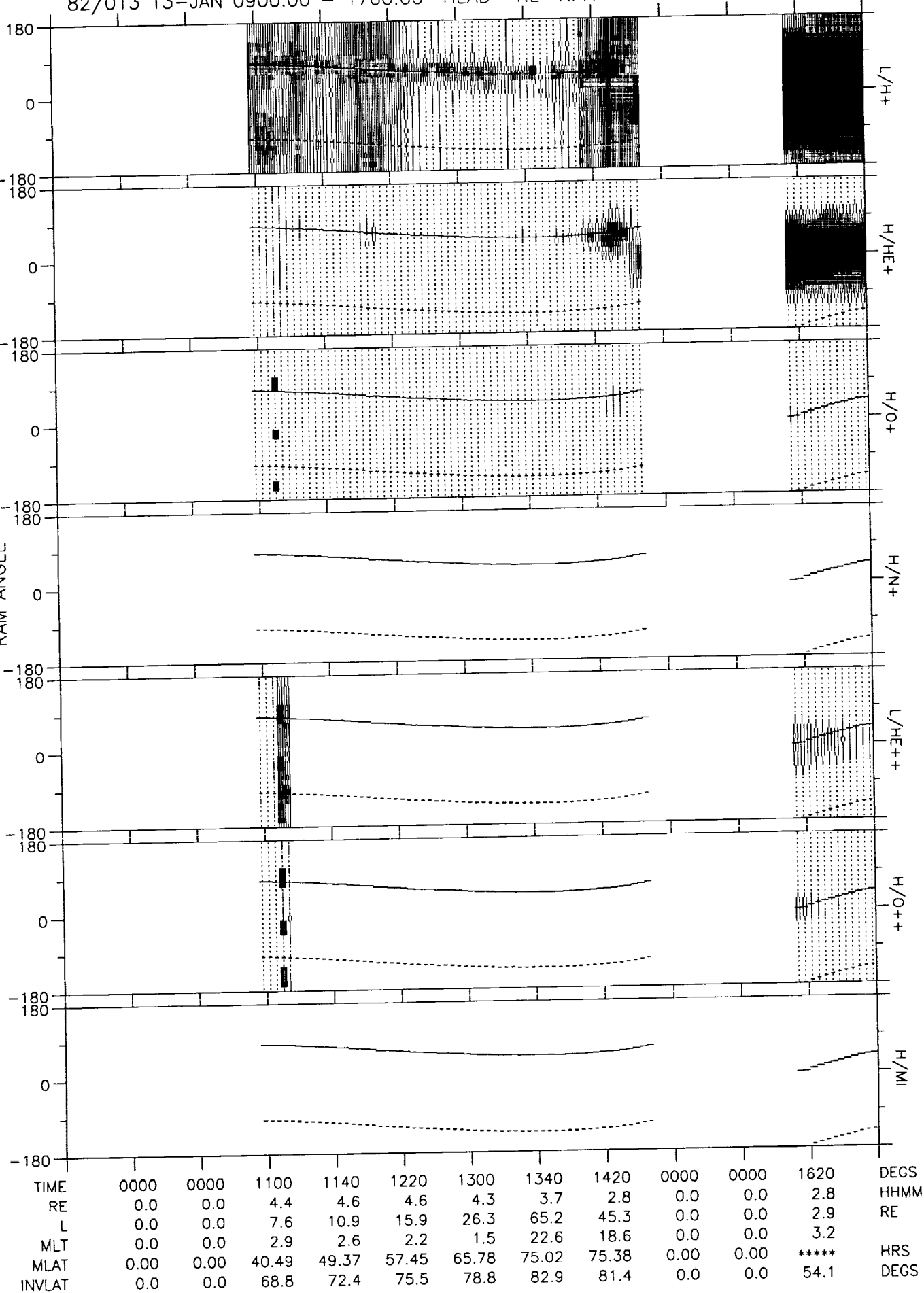
82/013 13-JAN 0200:00 - 1000:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0320	0400	0440	0520	0600	0640	0720	0000	0000	0000	DEGS
RE	0.0	3.8	4.3	4.6	4.6	4.4	3.9	3.1	0.0	0.0	0.0	HHMM
L	0.0	4.3	6.4	10.1	17.8	42.8	100.0	46.2	0.0	0.0	0.0	RE
MLT	0.0	3.2	3.5	3.7	4.0	4.3	6.8	15.0	0.0	0.0	0.0	
MLAT	0.00	21.06	36.27	48.92	60.69	72.64	85.60	73.58	0.00	0.00	0.00	HRS
INVLAT	0.0	61.0	66.8	71.7	76.3	81.2	87.1	81.5	0.0	0.0	0.0	DEGS

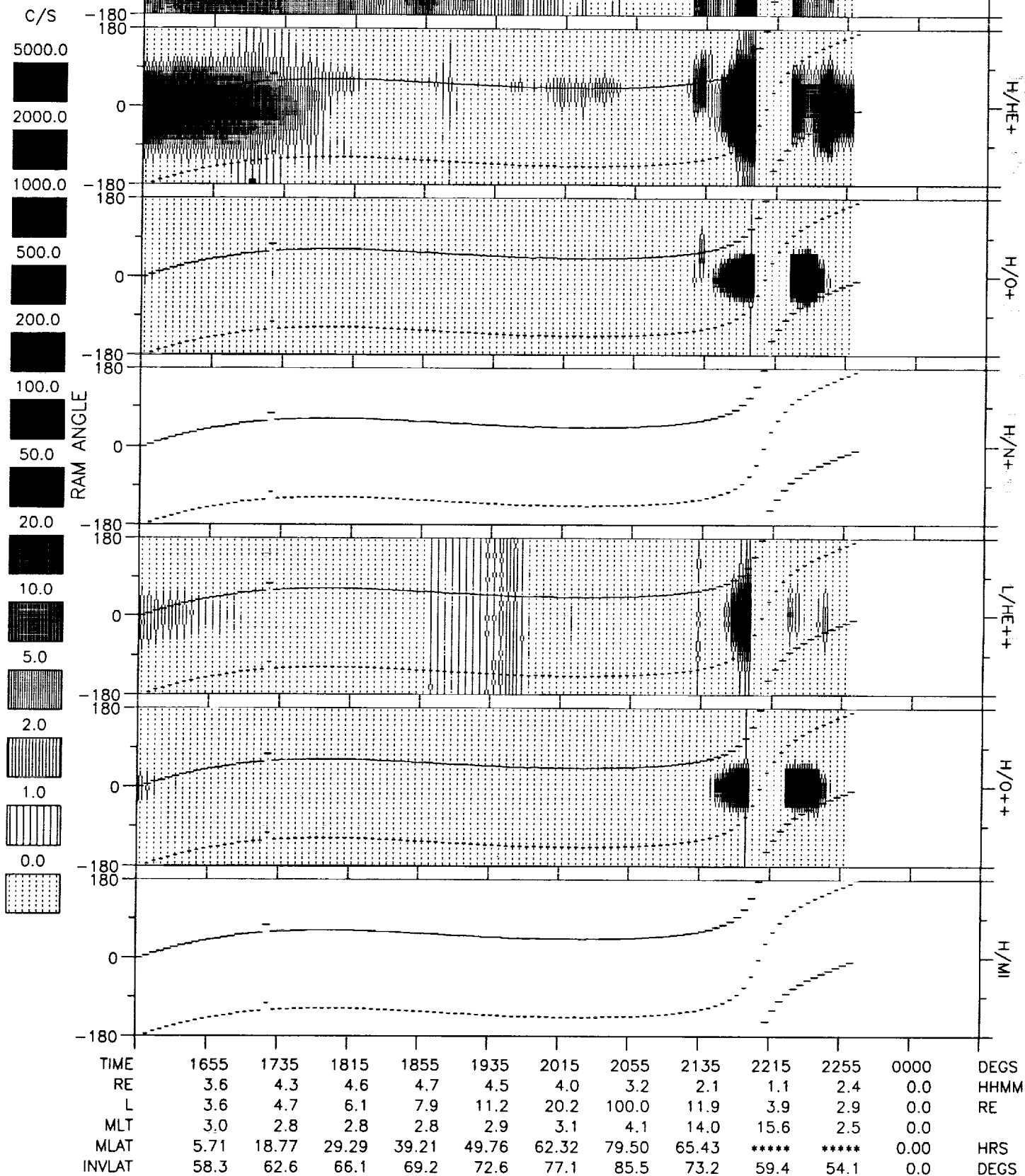
DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Sat Sep 4 11:47:21 1993

82/013 13-JAN 0900:00 - 1700:00 HEAD= RL RPA= 0 to 1000 BIAS= A



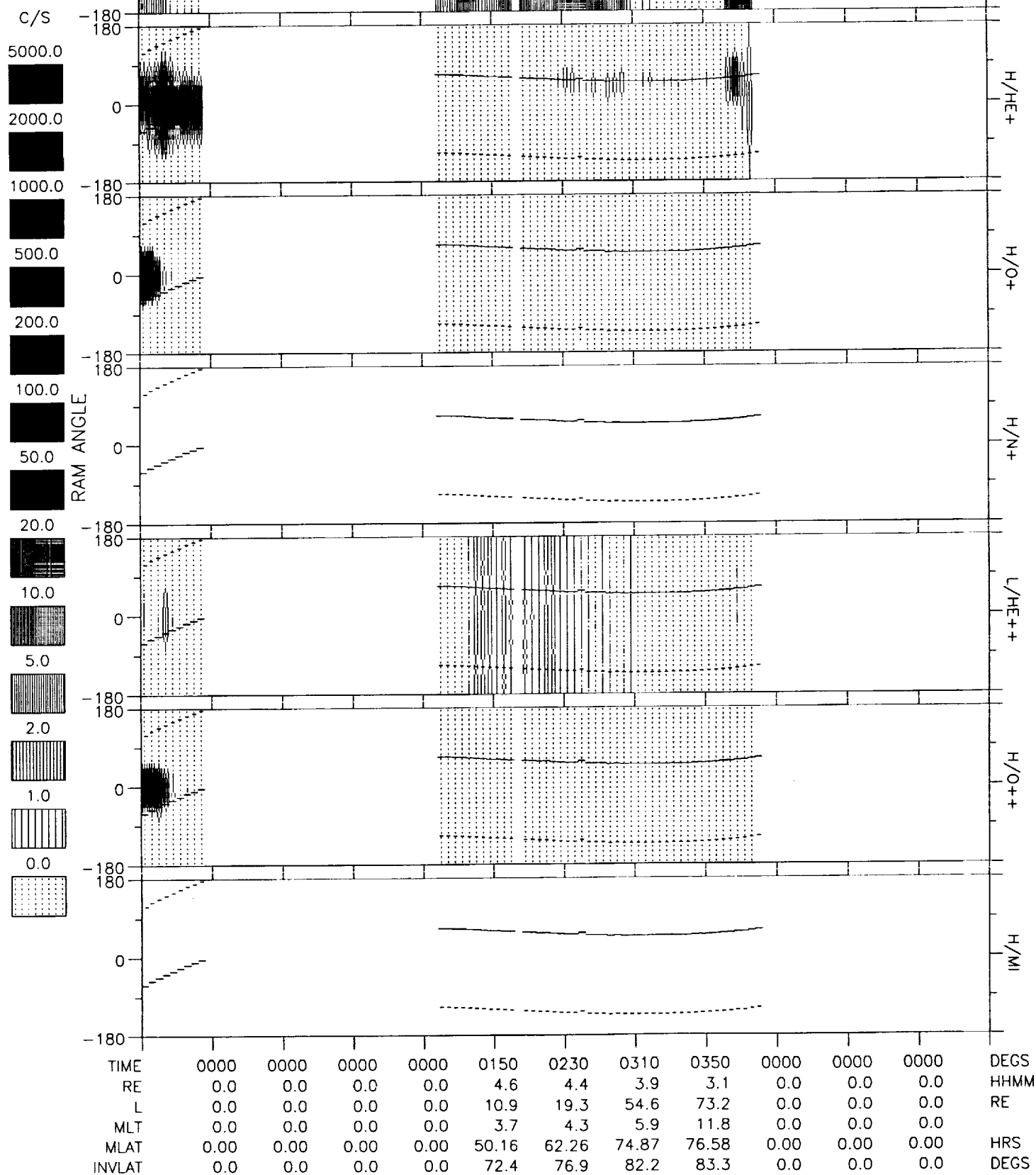
DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Sat Sep 4 11:49:12 1993

82/013 13-JAN 1615:00 - 0015:00 HEAD= RL RPA= 0 to 1000 BIAS= A



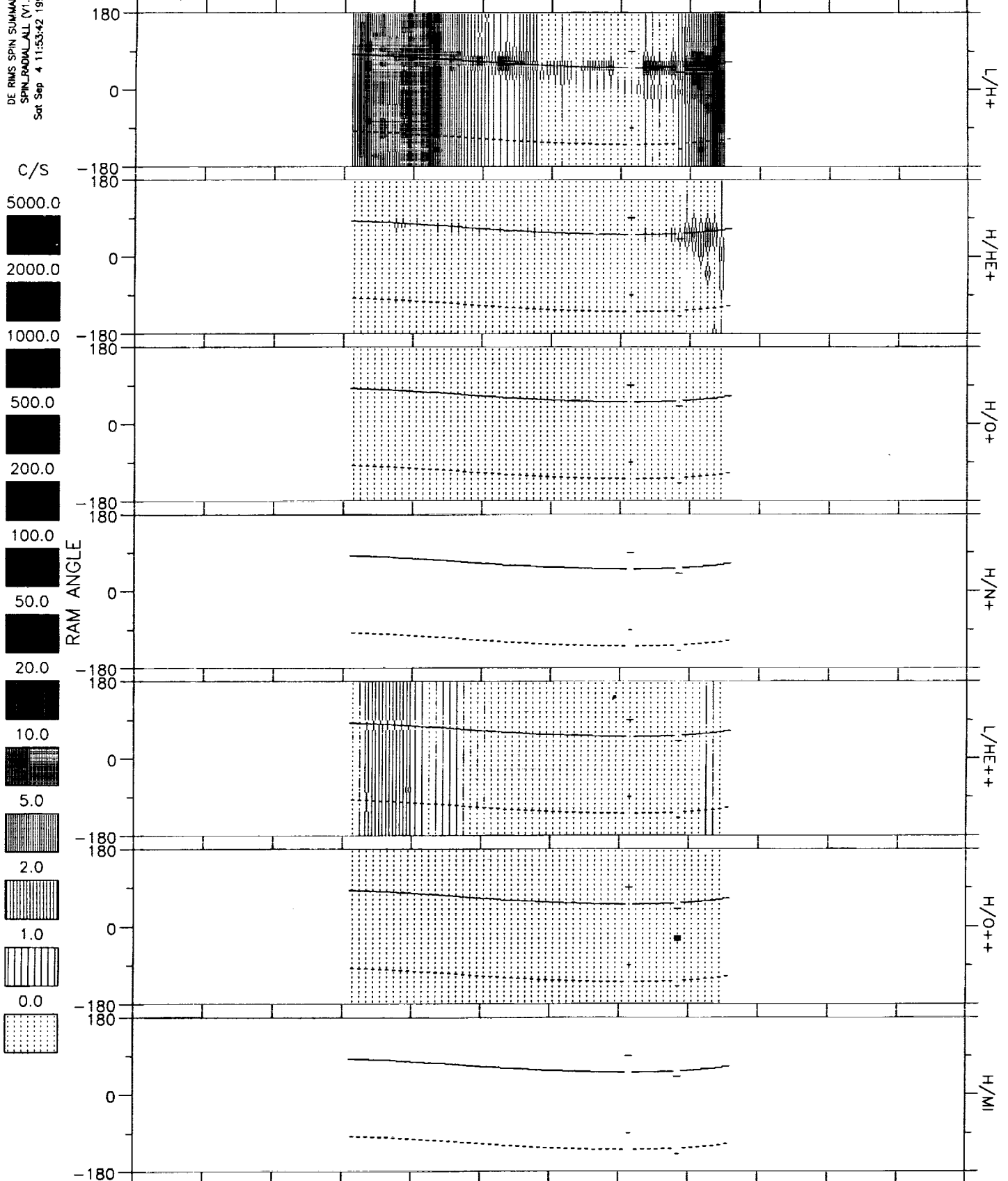
DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Sat Sep 4 11:51:52 1993

82/013 13-JAN 2230:00 - 0630:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Sat Sep 4 11:53:42 1993

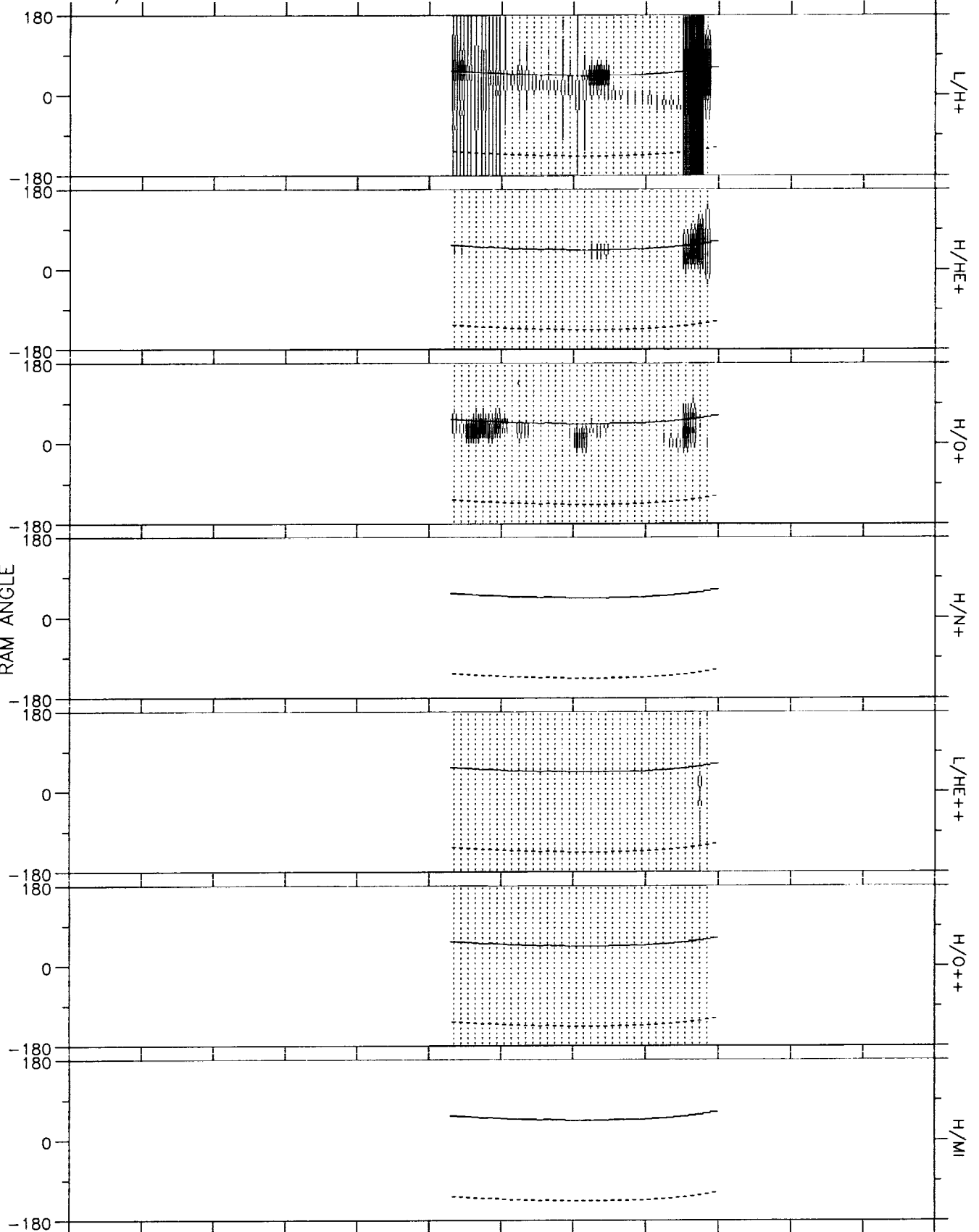
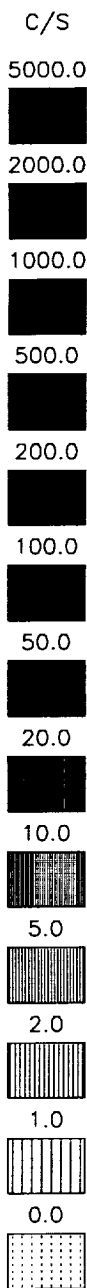
82/014 14-JAN 0530:00 - 1330:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0810	0850	0930	1010	1050	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	4.6	4.6	4.3	3.8	2.9	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	13.7	24.4	58.5	100.0	-0.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	3.2	2.9	2.1	22.8	17.1	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	54.61	64.52	74.35	82.85	71.32	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	74.3	78.3	82.5	86.7	-0.0	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Sat Sep 4 11:55:24 1993

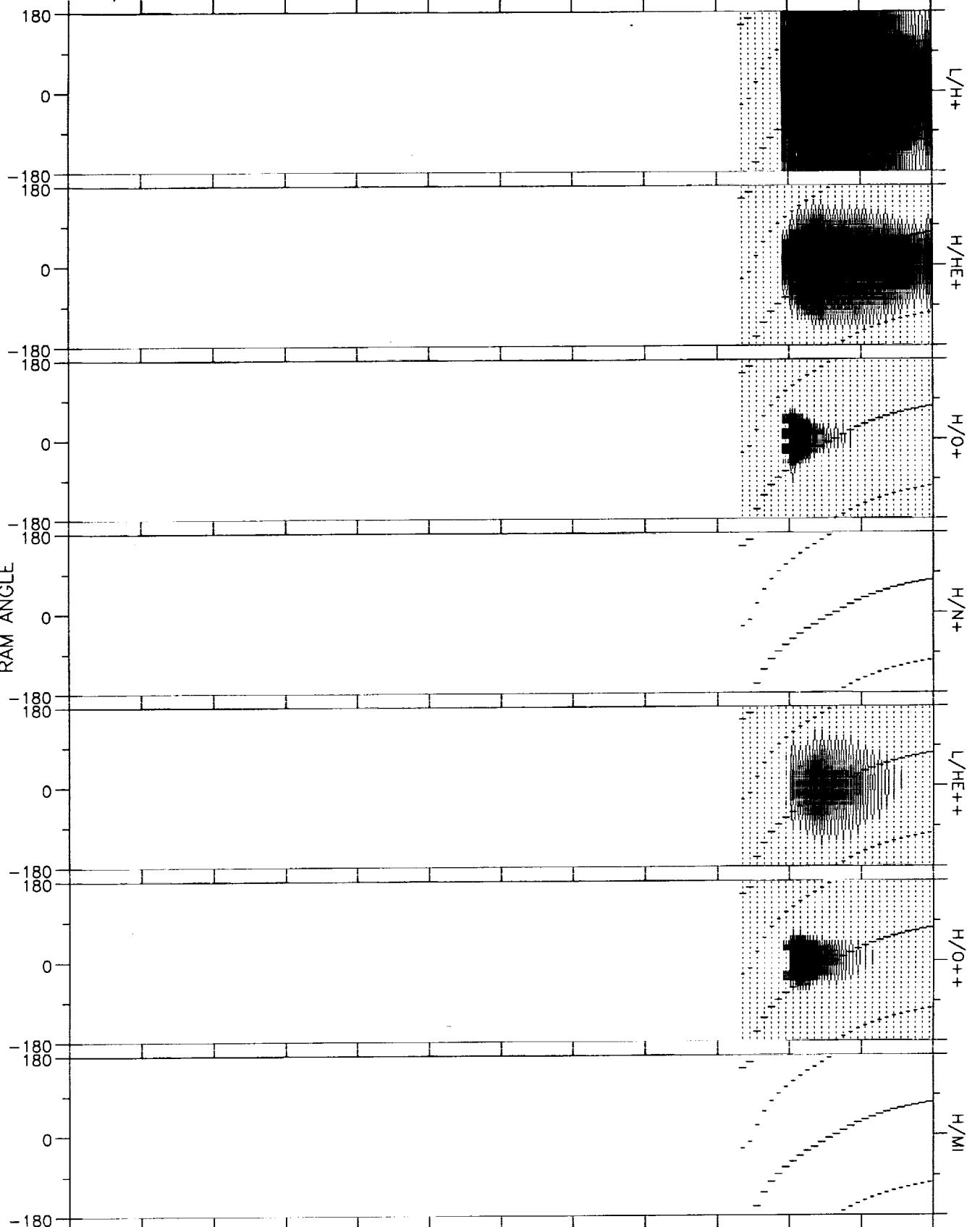
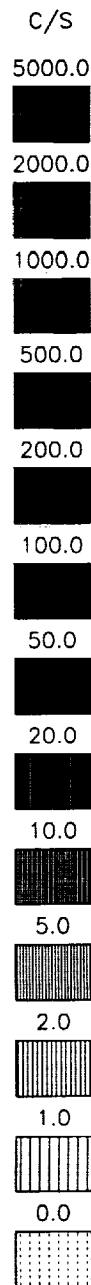
82/014 14-JAN 1900:00 - 0300:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	2300	2340	0020	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	4.5	4.0	3.2	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	12.6	25.3	100.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	3.5	4.3	7.9	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	52.89	66.04	78.98	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	73.6	78.5	84.7	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Sat Sep 4 11:56:53 1993

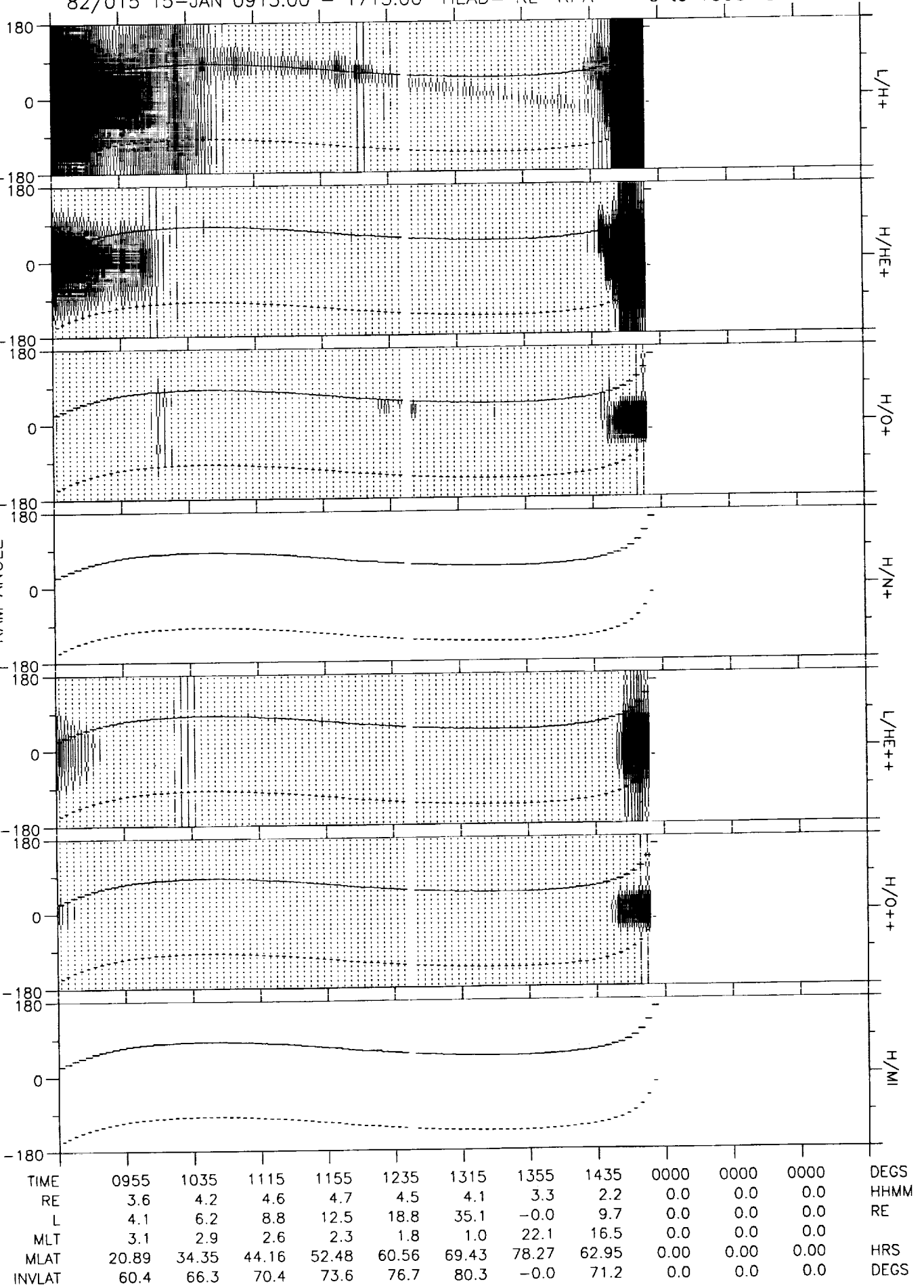
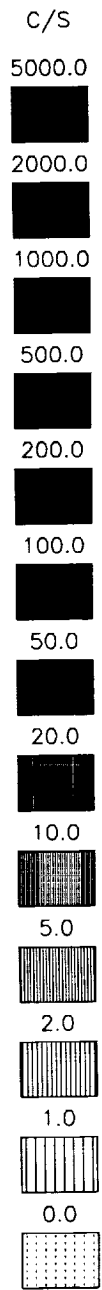
82/015 15-JAN 0200:00 - 1000:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0840	0920	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.7	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	2.7	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.3	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****	1.51	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.7	52.7	DEGS

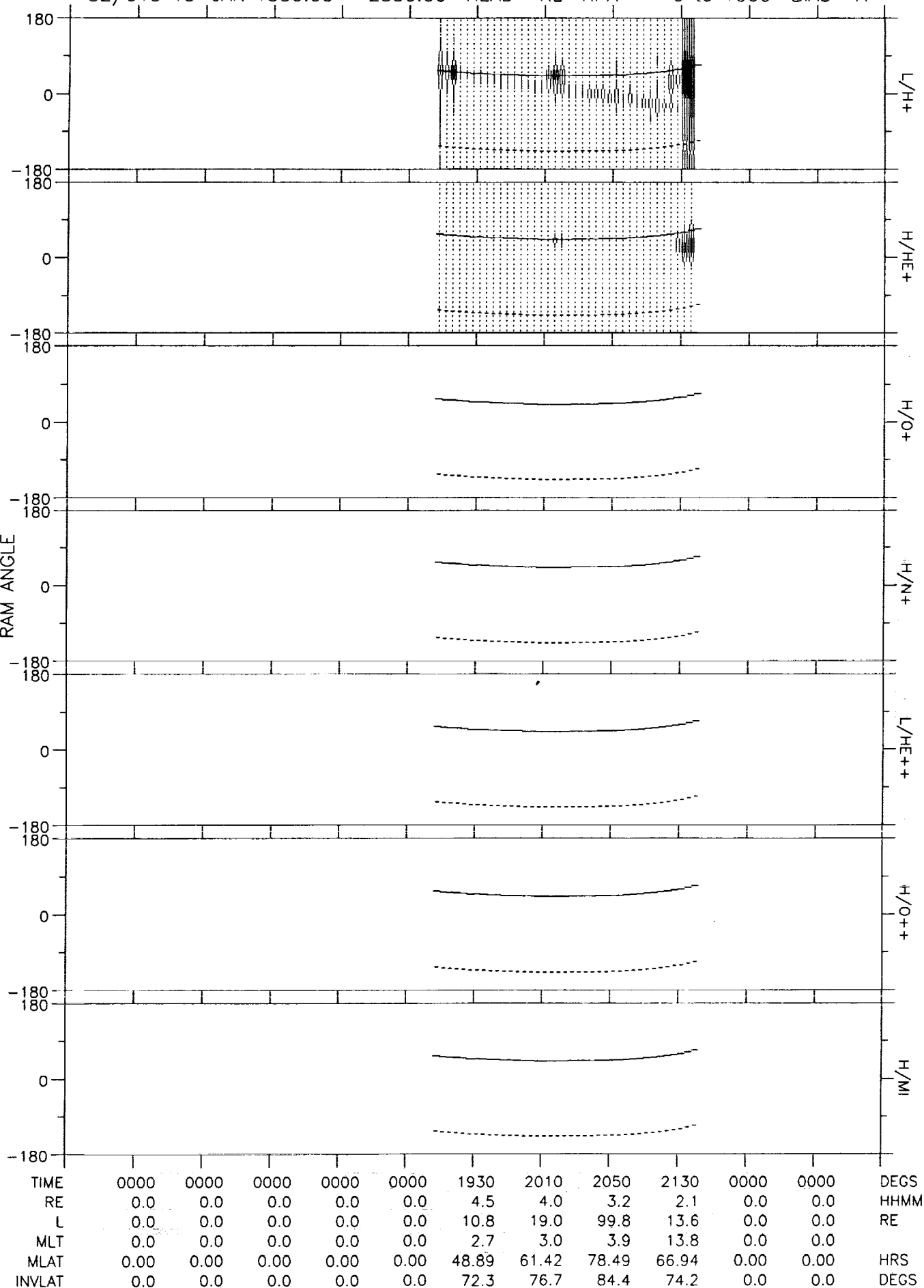
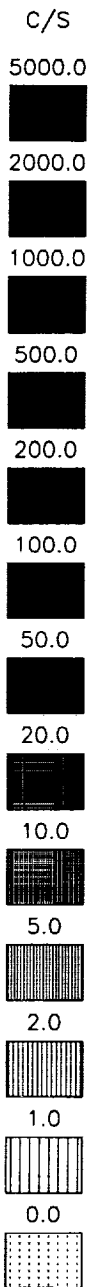
DE RIMS SPIN SUMMARY
SPINRADIAL.ALL (V1.0)
Sun Sep 5 14:19:41 1993

82/015 15-JAN 0915:00 - 1715:00 HEAD= RL RPA= 0 to 1000 BIAS= A



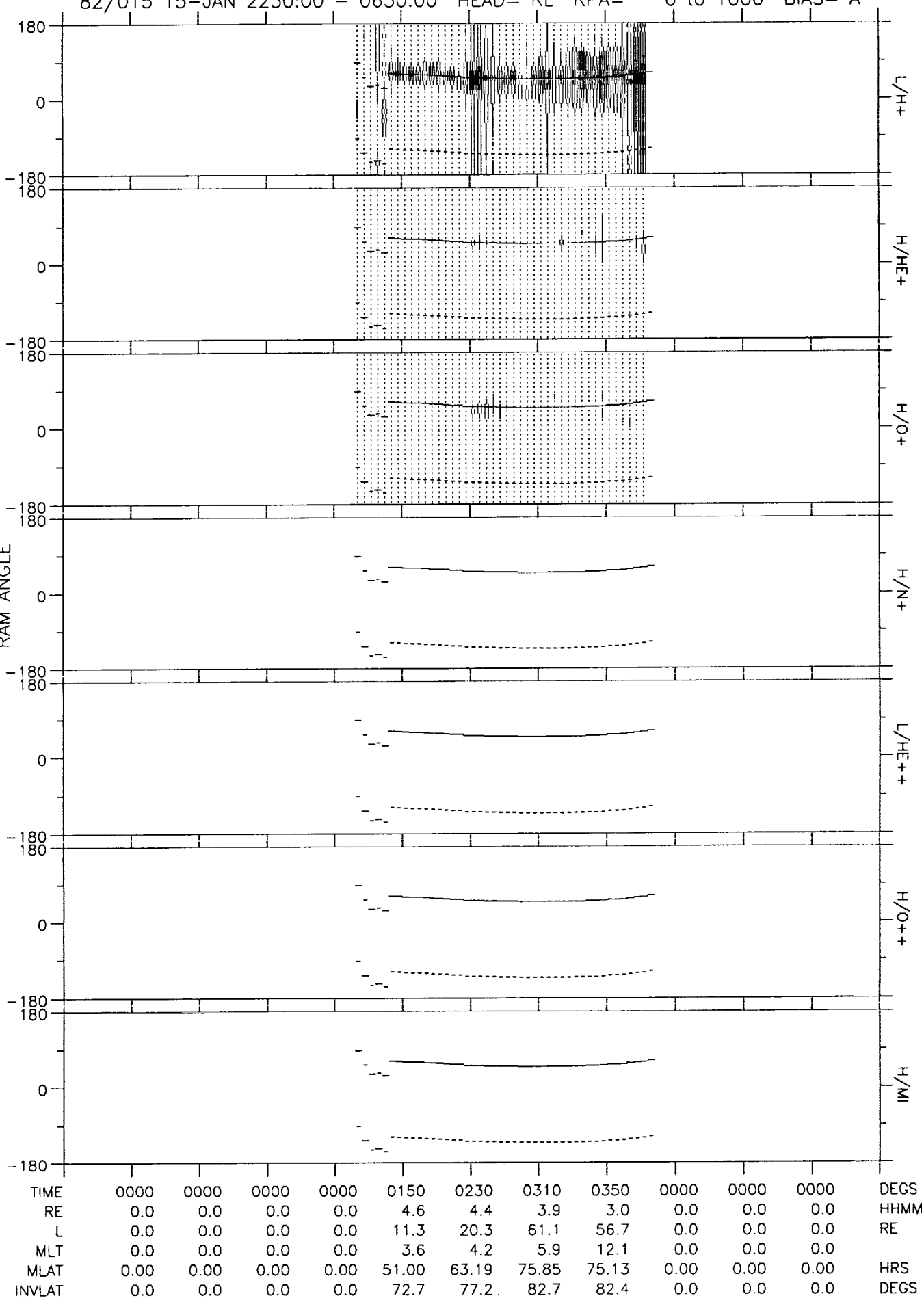
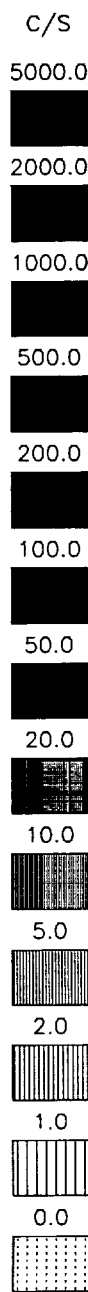
DE RIMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Sat Sep 4 12:00:49 1993

82/015 15-JAN 1530:00 - 2330:00 HEAD= RL RPA= 0 to 1000 BIAS= A



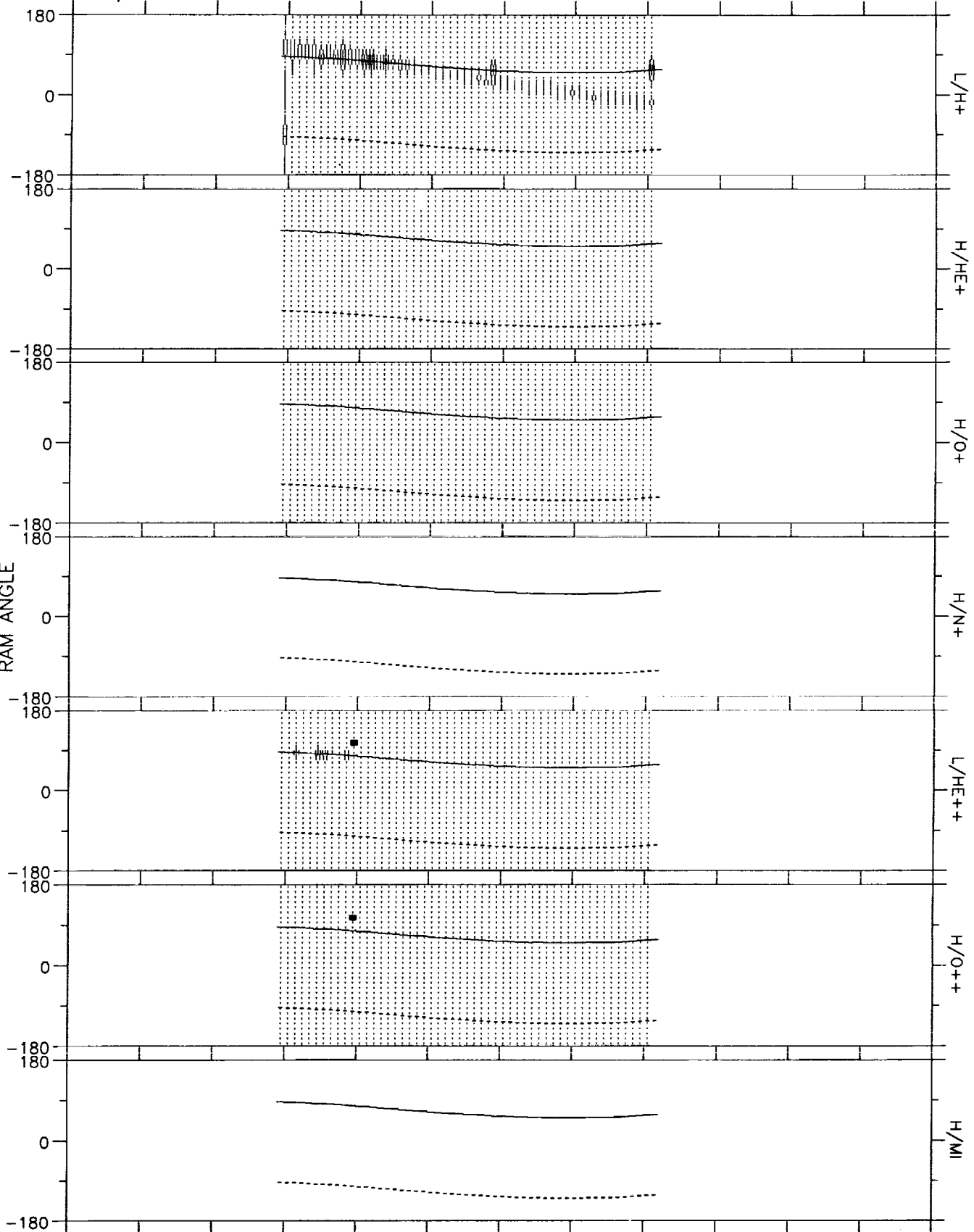
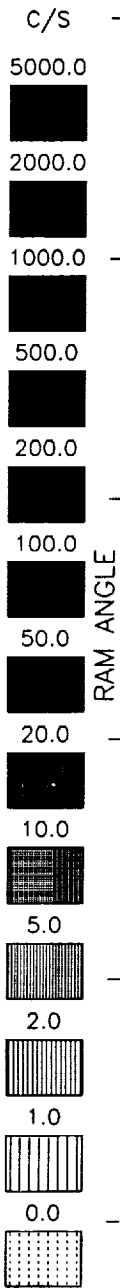
DE RIMS SPIN SUMMARY
SPINRADIAL_ALL (V1.0)
Sat Sep 4 12:02:03 1993

82/015 15-JAN 2230:00 - 0630:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Sat Sep 4 12:03:22 1993

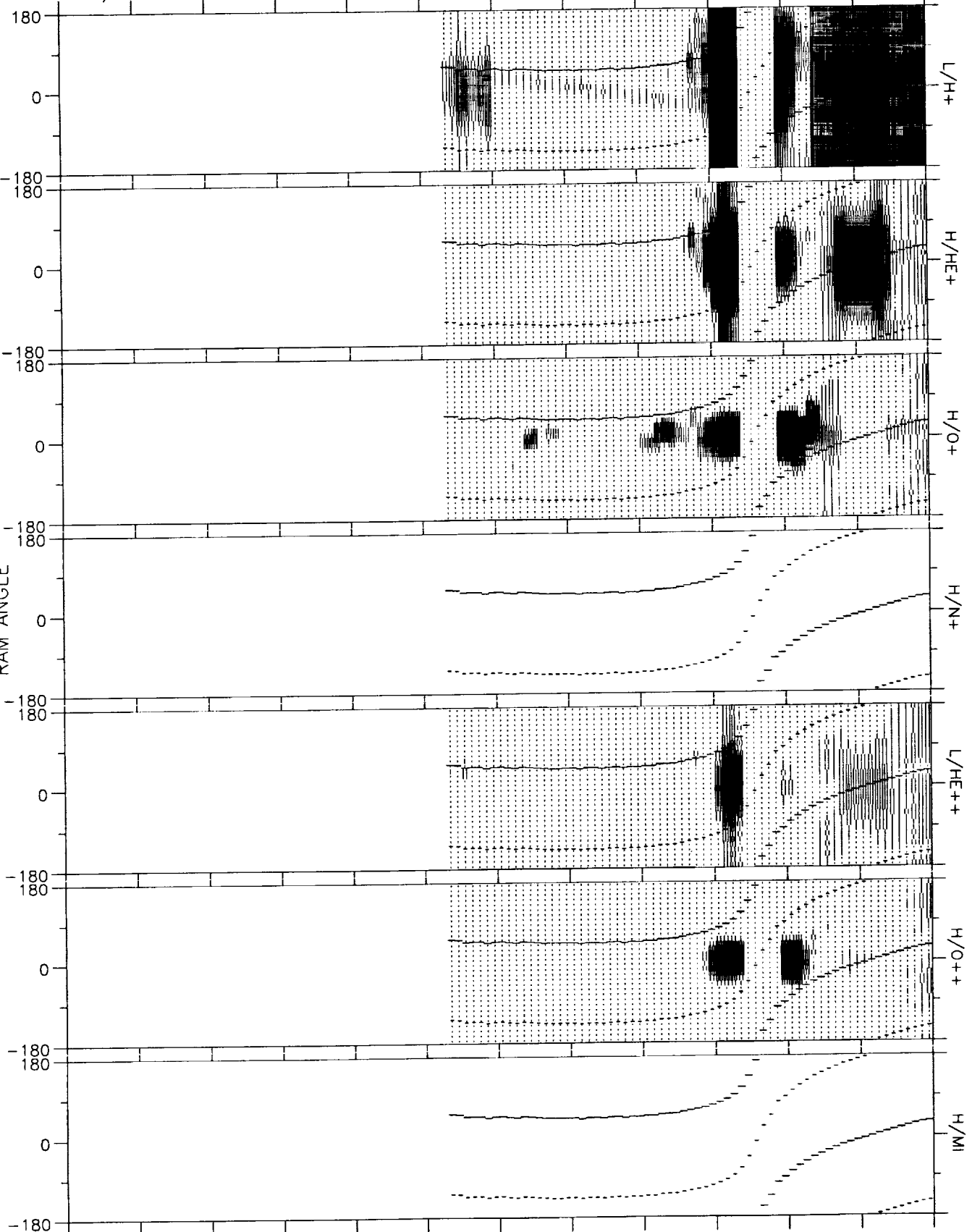
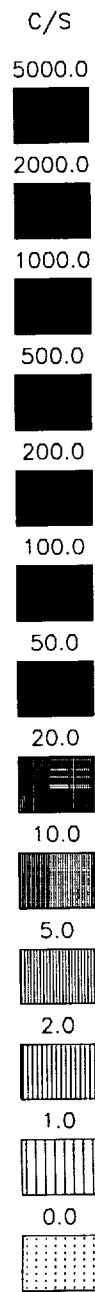
82/016 16-JAN 0530:00 - 1330:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0730	0810	0850	0930	1010	1050	0000	0000	0000	DEGS
RE	0.0	0.0	4.4	4.7	4.6	4.3	3.7	2.8	0.0	0.0	0.0	HHMM
L	0.0	0.0	8.6	14.0	25.0	60.5	100.0	24.8	0.0	0.0	0.0	RE
MLT	0.0	0.0	3.1	3.0	2.7	1.8	21.9	16.8	0.0	0.0	0.0	
MLAT	0.00	0.00	44.32	55.02	64.84	74.68	82.86	69.30	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	70.1	74.5	78.5	82.6	86.8	78.4	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN RADIAL LALL (V1.0)
Sat Sep 4 12:04:53 1993

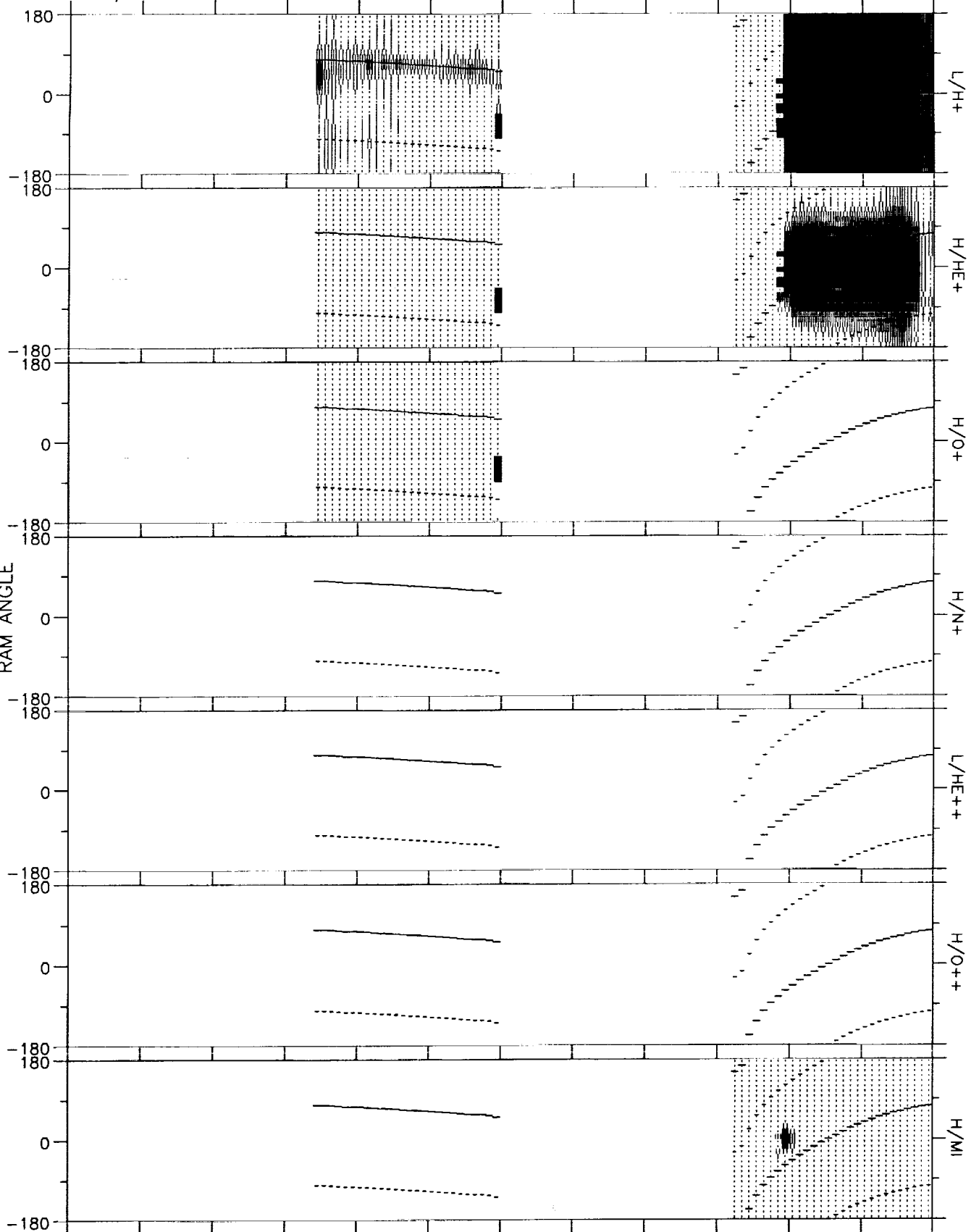
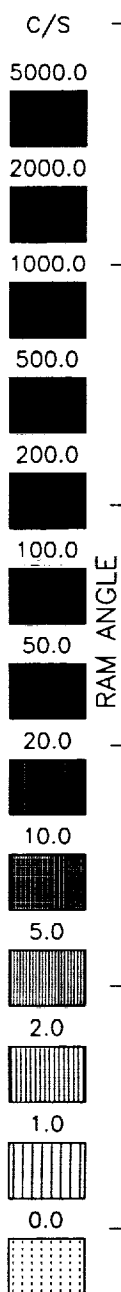
82/016 16-JAN 1215:00 - 2015:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	1615	1655	1735	1815	1855	1935	DEGS
RE	0.0	0.0	0.0	0.0	0.0	4.4	3.8	2.9	1.6	1.4	2.7	HHMM
L	0.0	0.0	0.0	0.0	0.0	14.0	28.2	100.0	3.4	69.5	3.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	2.0	1.6	22.6	15.0	3.3	2.7	
MLAT	0.00	0.00	0.00	0.00	0.00	55.34	67.24	83.69	47.42	*****	*****	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	74.5	79.2	86.6	57.2	82.9	54.7	DEGS

DE RIMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Sat Sep 4 12:08:55 1993

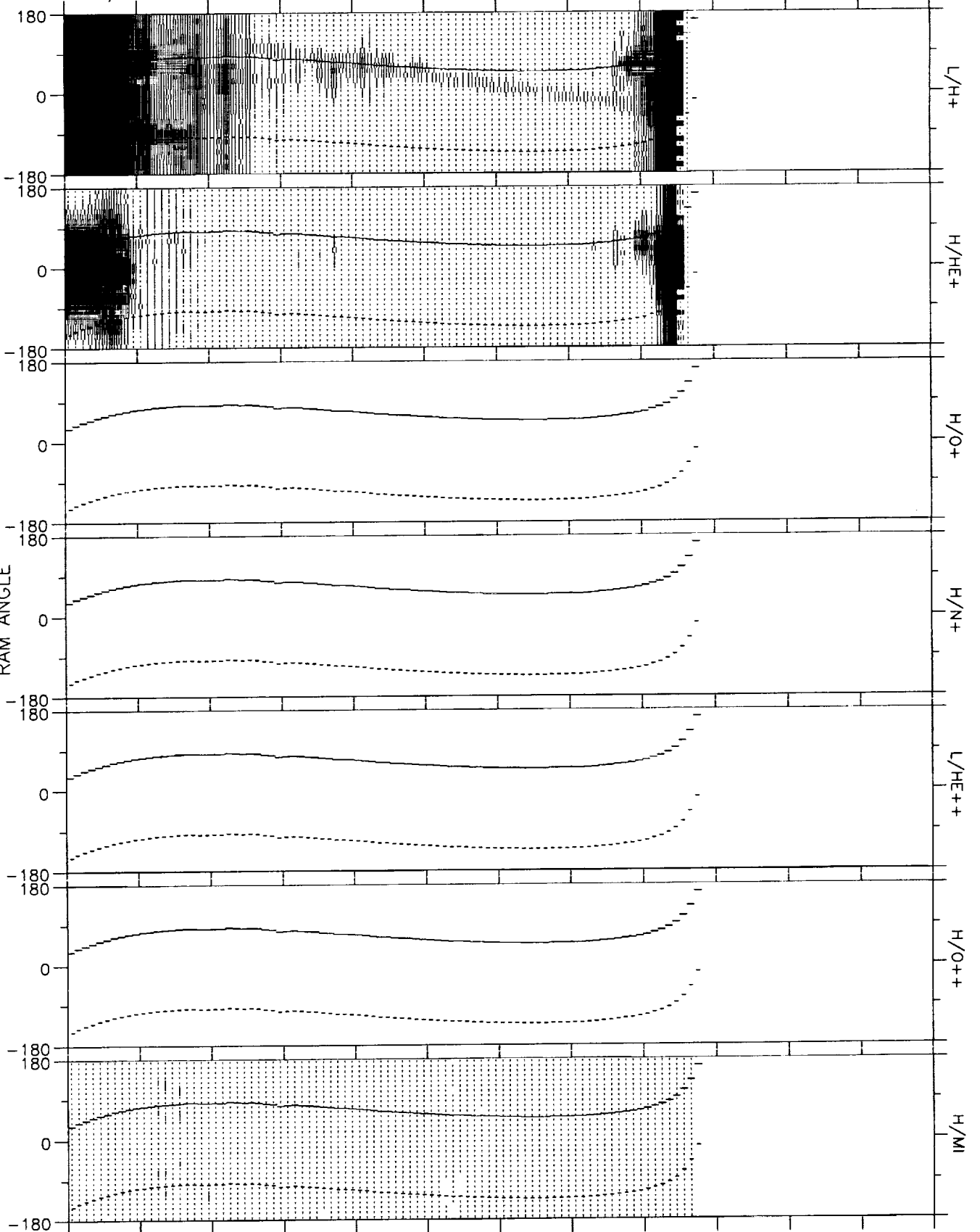
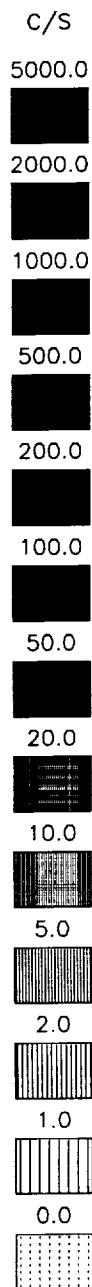
82/017 17-JAN 0200:00 - 1000:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0440	0520	0000	0000	0000	0000	0840	0920	DEGS
RE	0.0	0.0	0.0	4.6	4.6	0.0	0.0	0.0	0.0	1.5	2.8	HHMM
L	0.0	0.0	0.0	10.8	19.4	0.0	0.0	0.0	0.0	3.1	2.9	RE
MLT	0.0	0.0	0.0	3.4	3.6	0.0	0.0	0.0	0.0	3.4	3.1	
MLAT	0.00	0.00	0.00	50.50	62.18	0.00	0.00	0.00	0.00	*****	3.90	HRS
INVLAT	0.0	0.0	0.0	72.3	76.9	0.0	0.0	0.0	0.0	55.5	53.7	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Sat Sep 4 12:10:41 1993

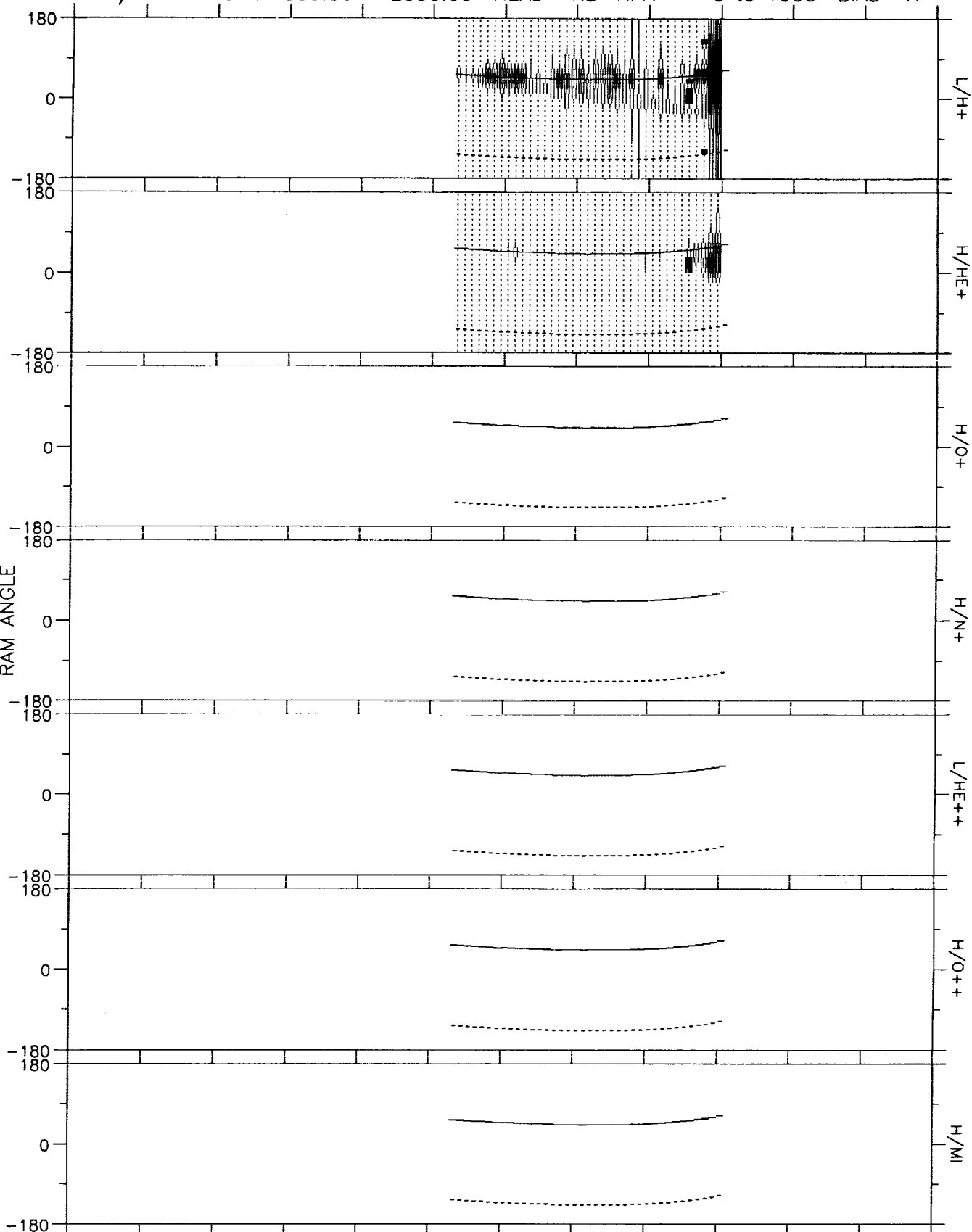
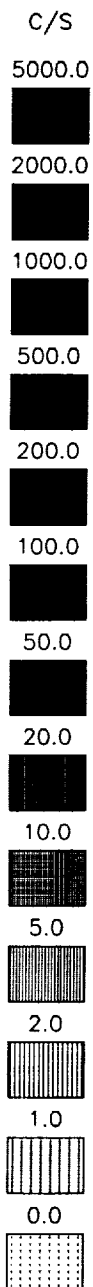
82/017 17-JAN 0915:00 - 1715:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0955	1035	1115	1155	1235	1315	1355	1435	0000	0000	0000	DEGS
RE	3.6	4.3	4.6	4.7	4.5	4.0	3.2	2.1	0.0	0.0	0.0	HHMM
L	4.2	6.3	8.9	12.5	18.8	35.9	100.0	7.0	0.0	0.0	0.0	RE
MLT	3.0	2.7	2.5	2.1	1.7	0.8	21.5	16.1	0.0	0.0	0.0	HRS
MLAT	21.87	34.74	44.30	52.54	60.68	69.78	78.54	59.03	0.00	0.00	0.00	DEGS
INVLAT	61.0	66.5	70.4	73.6	76.7	80.4	84.5	67.7	0.0	0.0	0.0	

DE RIMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Sat Sep 4 12:12:34 1993

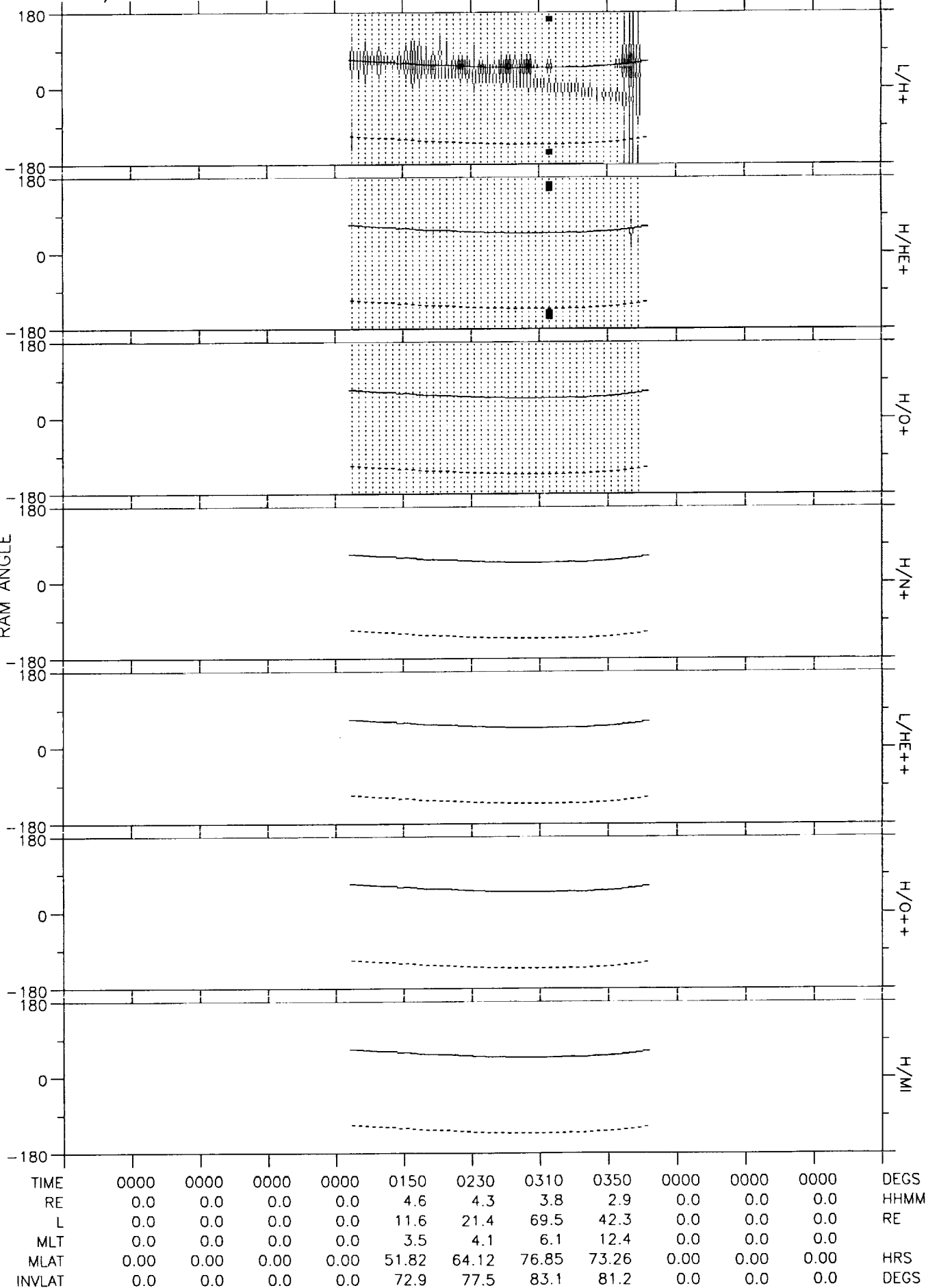
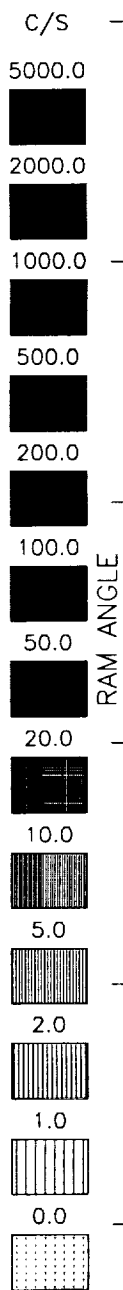
82/017 17-JAN 1530:00 - 2330:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	1930	2010	2050	2130	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	4.4	3.9	3.1	1.9	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	11.0	19.9	100.0	8.6	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	2.6	2.9	4.2	13.8	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	49.45	62.33	80.11	61.58	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	72.4	77.0	85.2	70.1	0.0	0.0	DEGS

DE RINS SPIN SUMMARY
SPINRADIAL.JLL (V1.0)
Sat Sep 4 12:13:48 1993

82/017 17-JAN 2230:00 - 0630:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN_RADIALALL (V1.0)
Sun Sep 5 14:23:18 1993

82/018 18-JAN 0515:00 - 1315:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

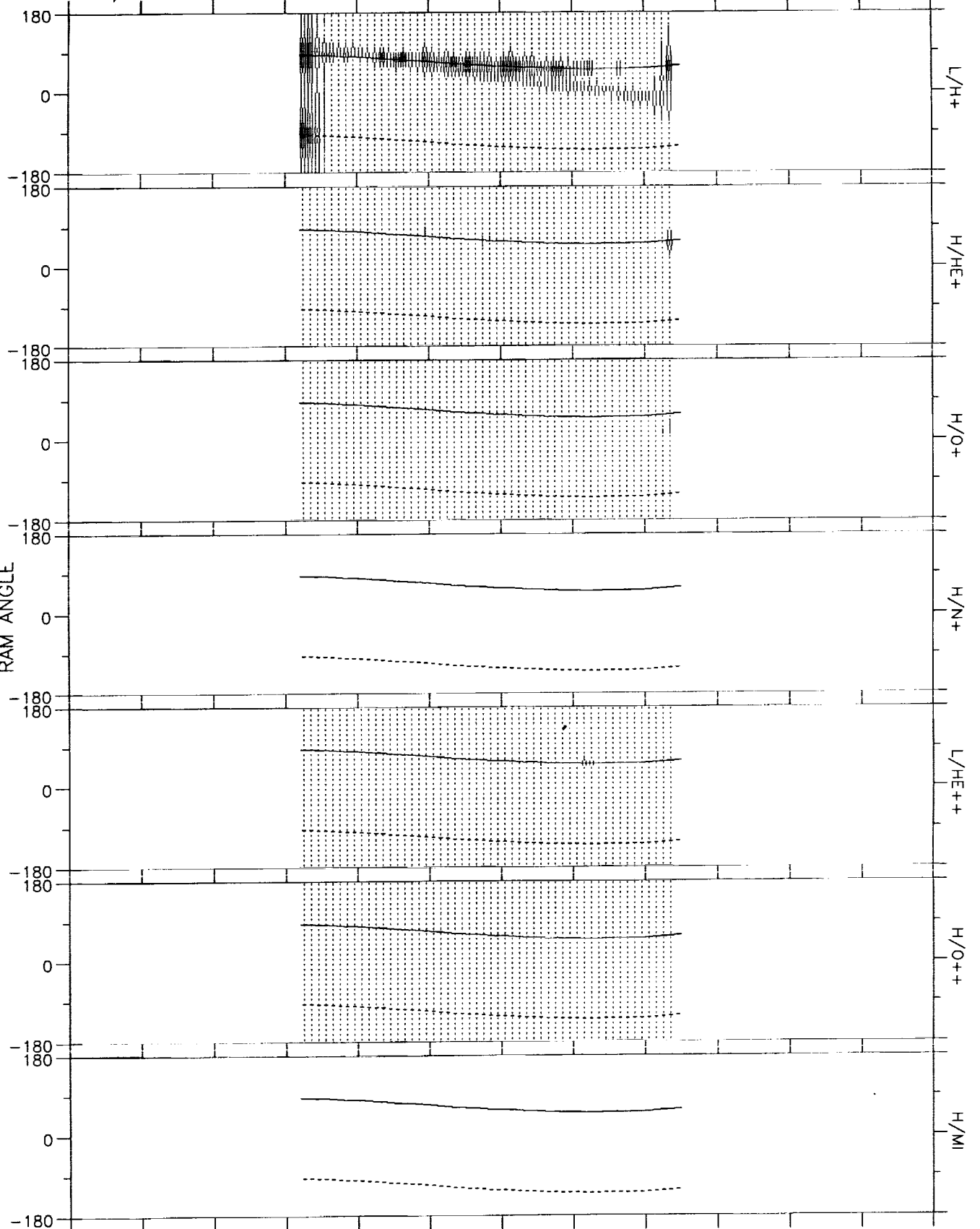
5.0

2.0

1.0

0.0

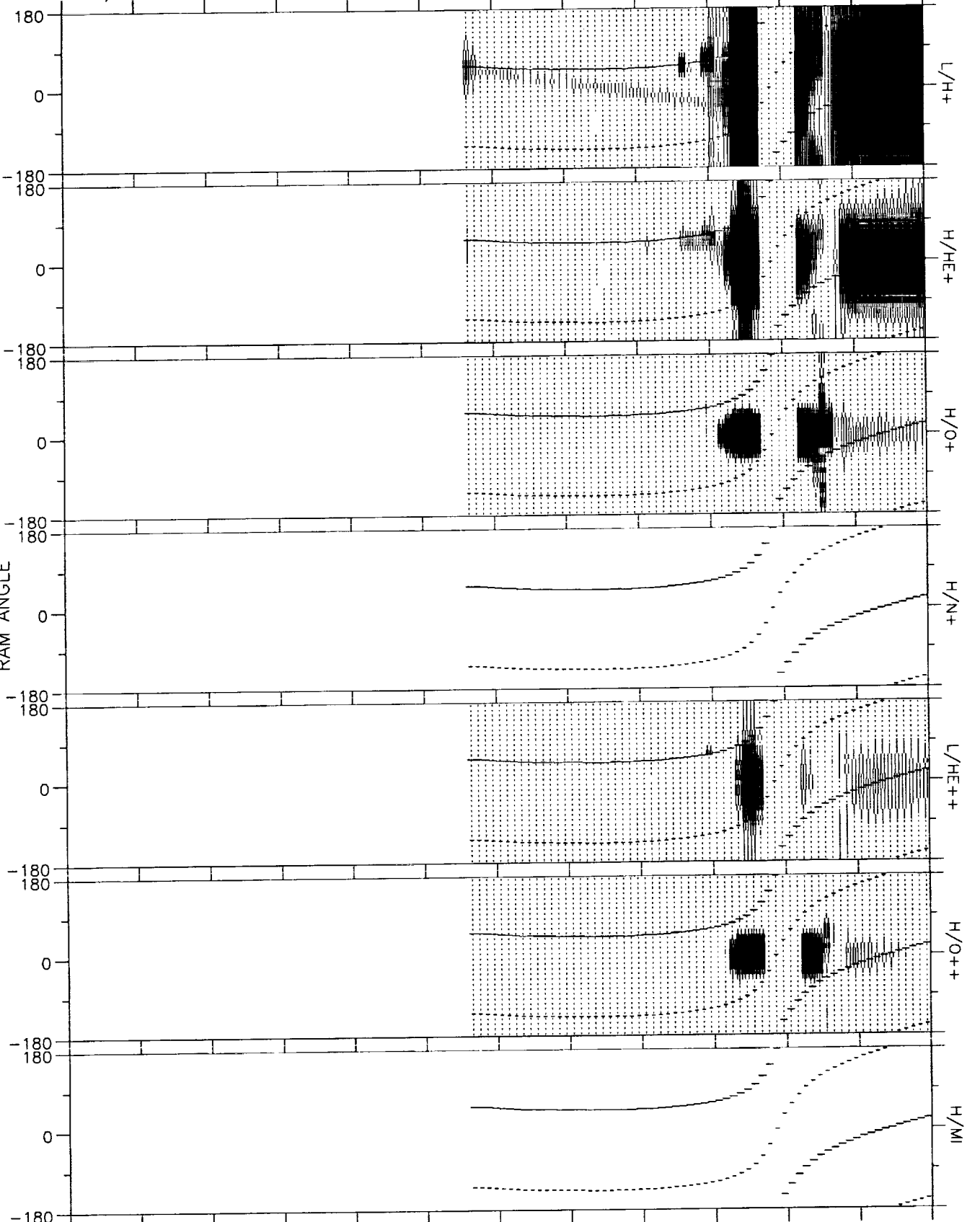
RAM ANGLE



TIME	0000	0000	0000	0755	0835	0915	0955	1035	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	4.6	4.6	4.4	3.9	3.0	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	11.9	20.1	41.9	100.0	63.3	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	2.9	2.6	2.0	23.8	17.5	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	51.60	61.52	71.26	80.96	76.00	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	73.1	77.1	81.1	85.6	82.8	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Sun Sep 5 14:24:53 1993

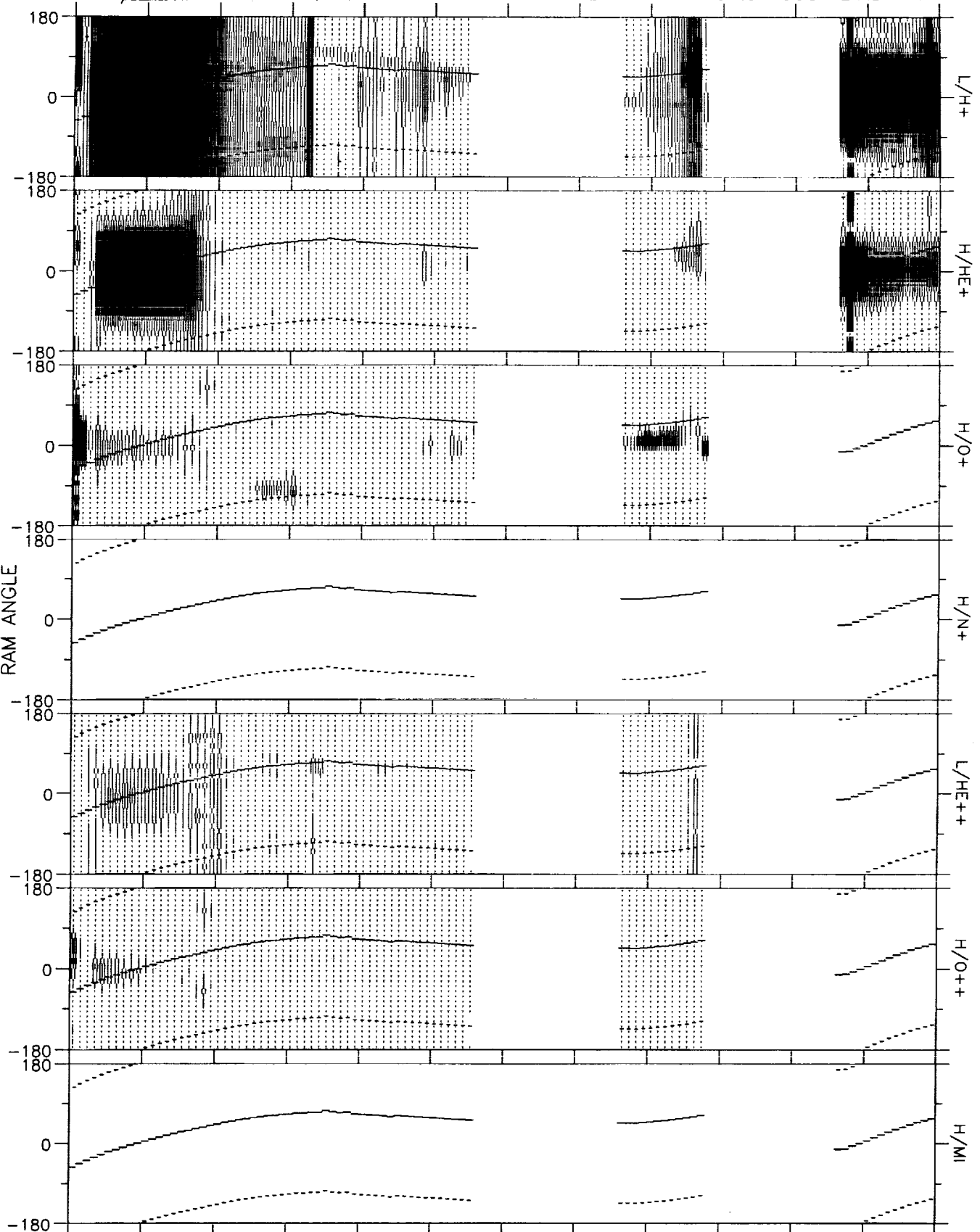
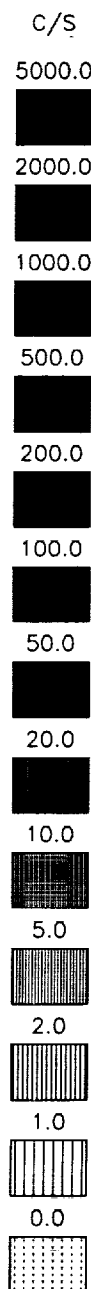
82/018 18-JAN 1200:00 - 2000:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	1600	1640	1720	1800	1840	1920	DEGS
RE	0.0	0.0	0.0	0.0	0.0	4.5	4.0	3.2	2.0	1.1	2.4	HHMM
L	0.0	0.0	0.0	0.0	0.0	12.0	20.8	100.0	10.5	4.1	3.1	RE
MLT	0.0	0.0	0.0	0.0	0.0	1.9	1.7	0.6	15.2	14.3	2.6	
MLAT	0.00	0.00	0.00	0.00	0.00	51.90	62.96	78.60	66.03	*****	*****	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	73.2	77.3	84.6	72.0	60.3	55.3	DEGS

DE RMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Sun Sep 5 14:26:59 1993

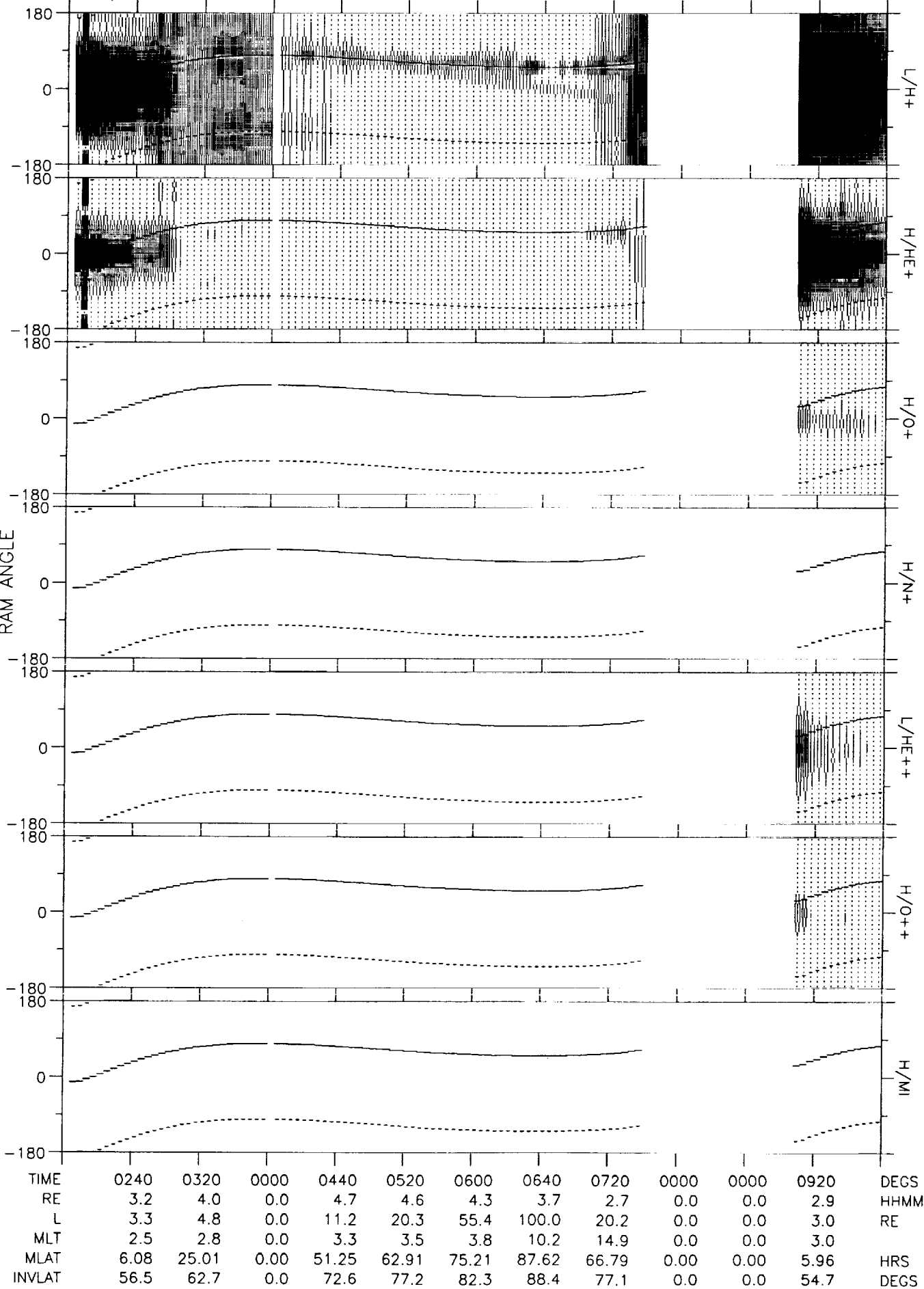
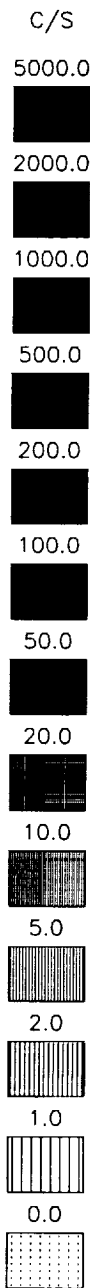
82/018 18-JAN 1900:00 - 0300:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1940	2020	2100	2140	2220	0000	0000	0020	0000	0000	0220	DEGS
RE	3.0	3.8	4.4	4.6	4.6	0.0	0.0	3.0	0.0	0.0	2.7	HHMM
L	3.1	3.8	4.9	6.4	8.7	0.0	0.0	100.0	0.0	0.0	2.8	RE
MLT	2.5	2.5	2.6	2.7	3.0	0.0	0.0	9.2	0.0	0.0	2.3	
MLAT	*****	5.49	19.33	31.15	42.53	0.00	0.00	78.81	0.00	0.00	-7.76	HRS
INVLAT	55.2	59.3	63.3	66.8	70.2	0.0	0.0	84.4	0.0	0.0	53.6	DEGS

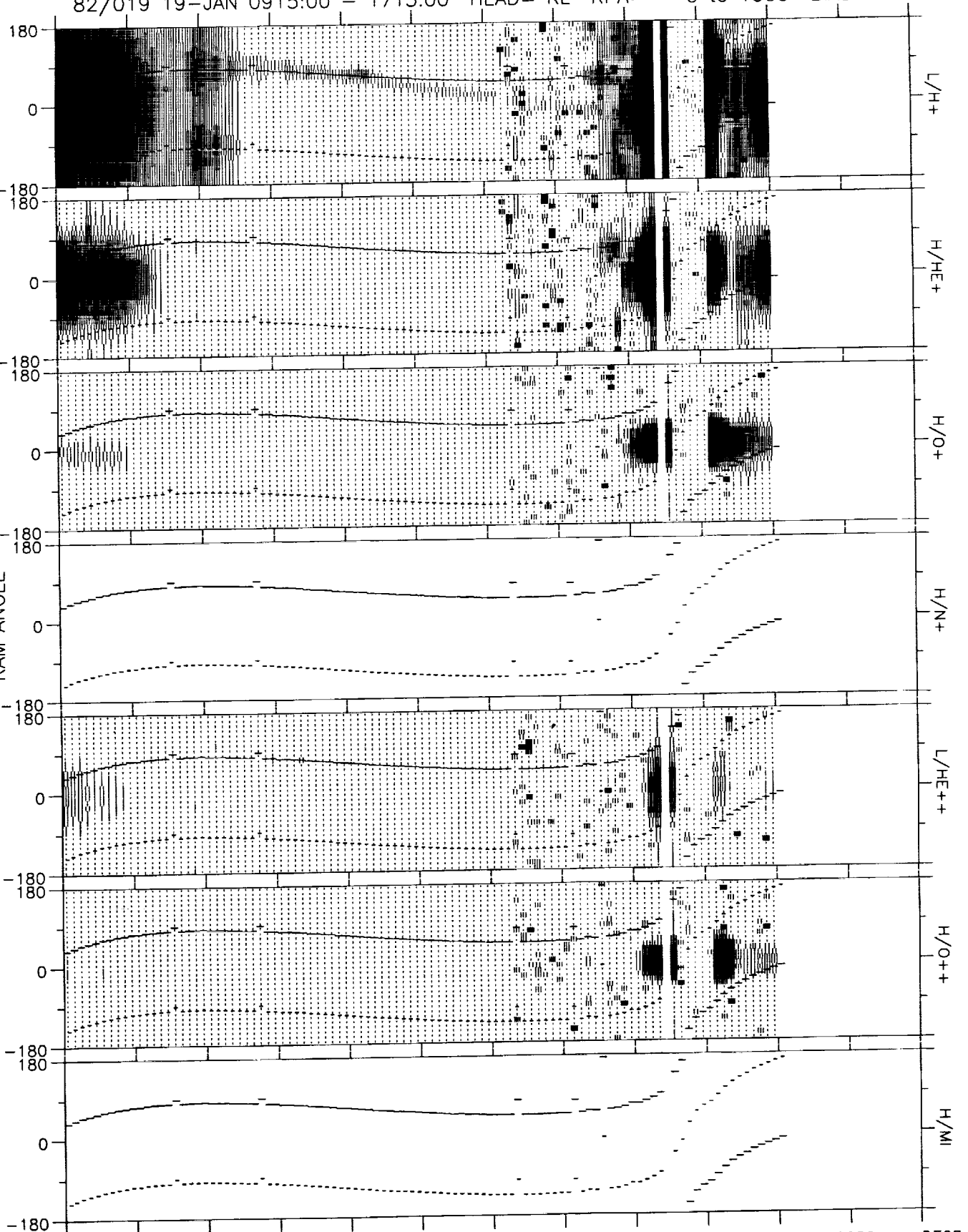
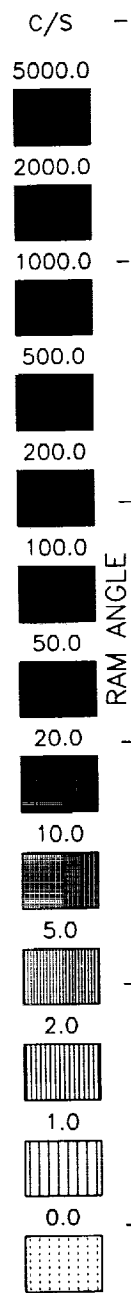
DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Sun Sep 5 14:52:34 1993

82/019 19-JAN 0200:00 - 1000:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Sun Sep 5 14:54:35 1993

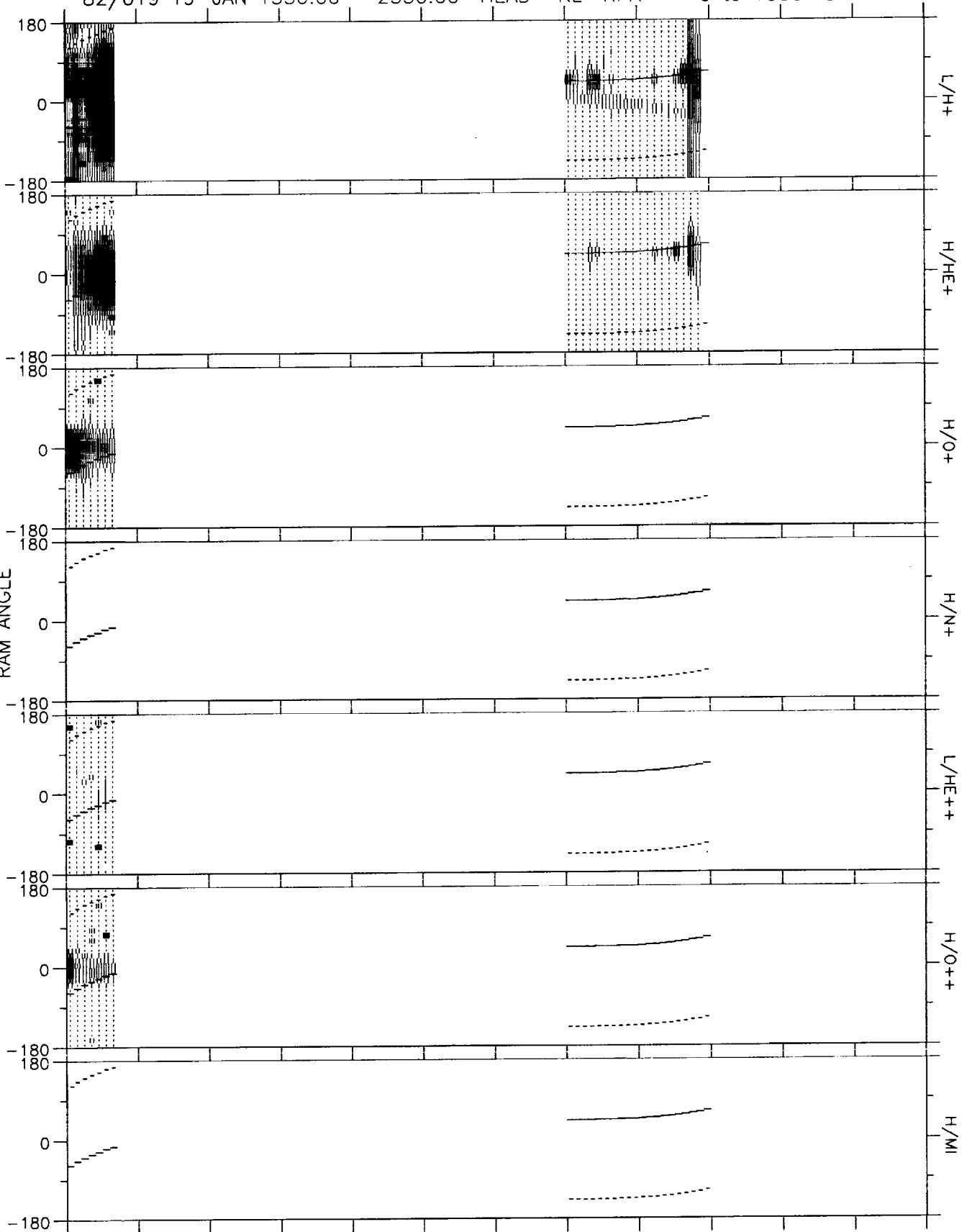
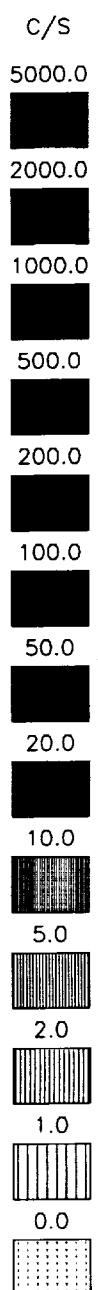
82/019 19-JAN 0915:00 - 1715:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0955	1035	1115	1155	1235	1315	1355	1435	1515	1555	0000	DEGS
RE	3.7	4.3	4.6	4.6	4.4	3.9	3.1	1.9	1.2	2.4	0.0	HHMM
L	4.4	6.4	9.0	12.6	18.9	36.9	100.0	5.0	10.5	2.9	0.0	RE
MLT	2.8	2.6	2.3	2.0	1.5	0.6	21.0	15.8	12.0	2.9	0.0	HRS
MLAT	22.78	35.11	44.43	52.61	60.82	70.16	78.70	54.32	****	****	0.00	DEGS
INVLAT	61.5	66.8	70.5	73.6	76.7	80.5	84.4	63.4	72.0	54.2	0.0	

DE RIMS SPIN SUMMARY
SPINRADIAL.ALL (V1.0)
Sun Sep 5 14:57:03 1993

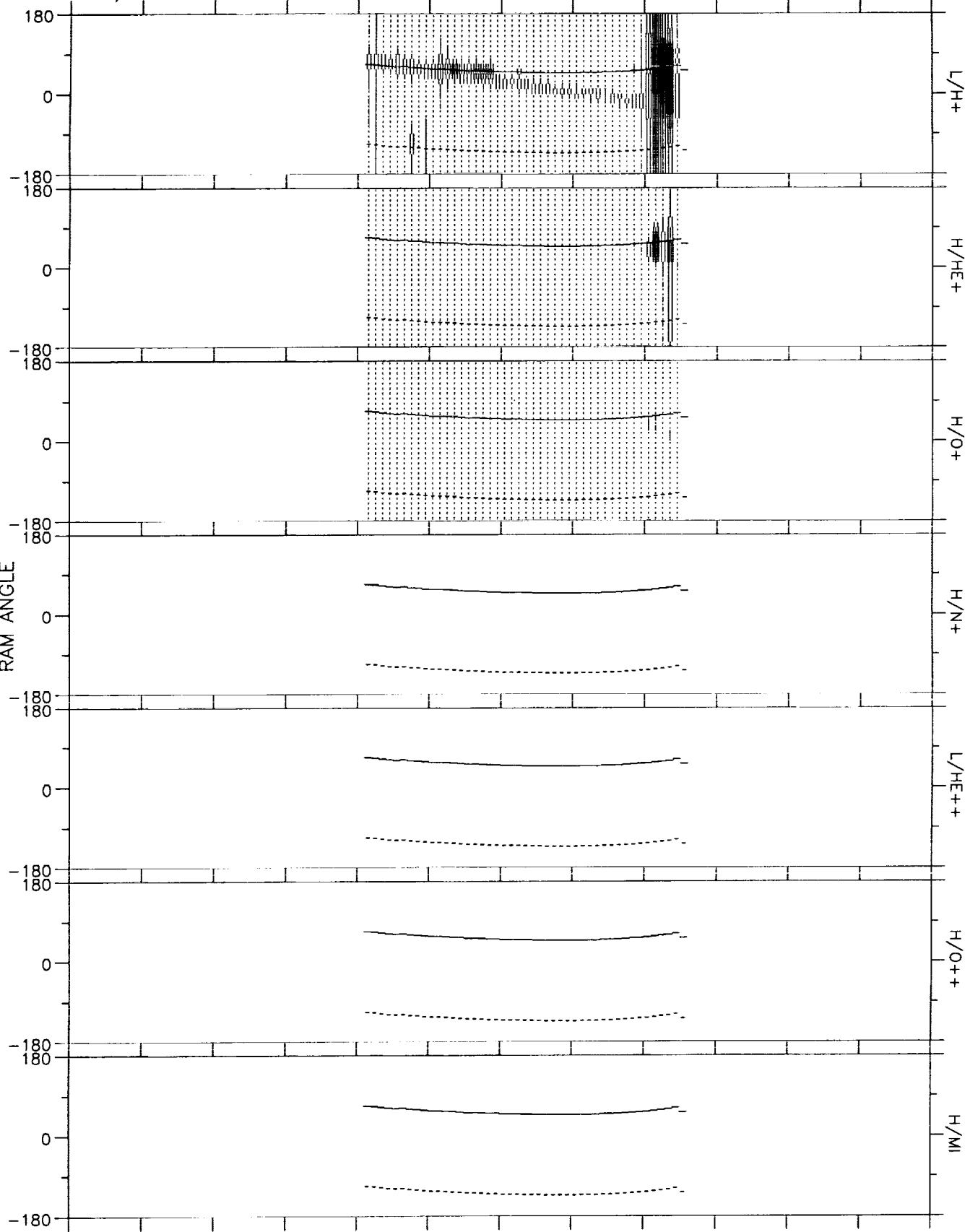
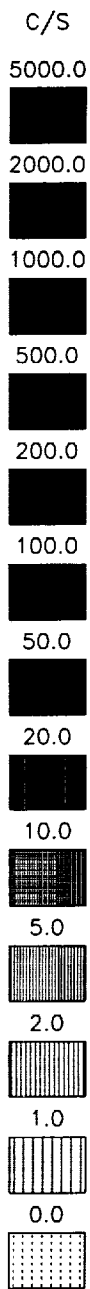
82/019 19-JAN 1530:00 - 2330:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	0000	2010	2050	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	3.9	3.1	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	21.0	100.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	2.8	4.1	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	63.32	79.97	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	77.4	85.1	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPINRADIAL.ALL (V1.0)
Sun Sep 5 16:58:27 1993

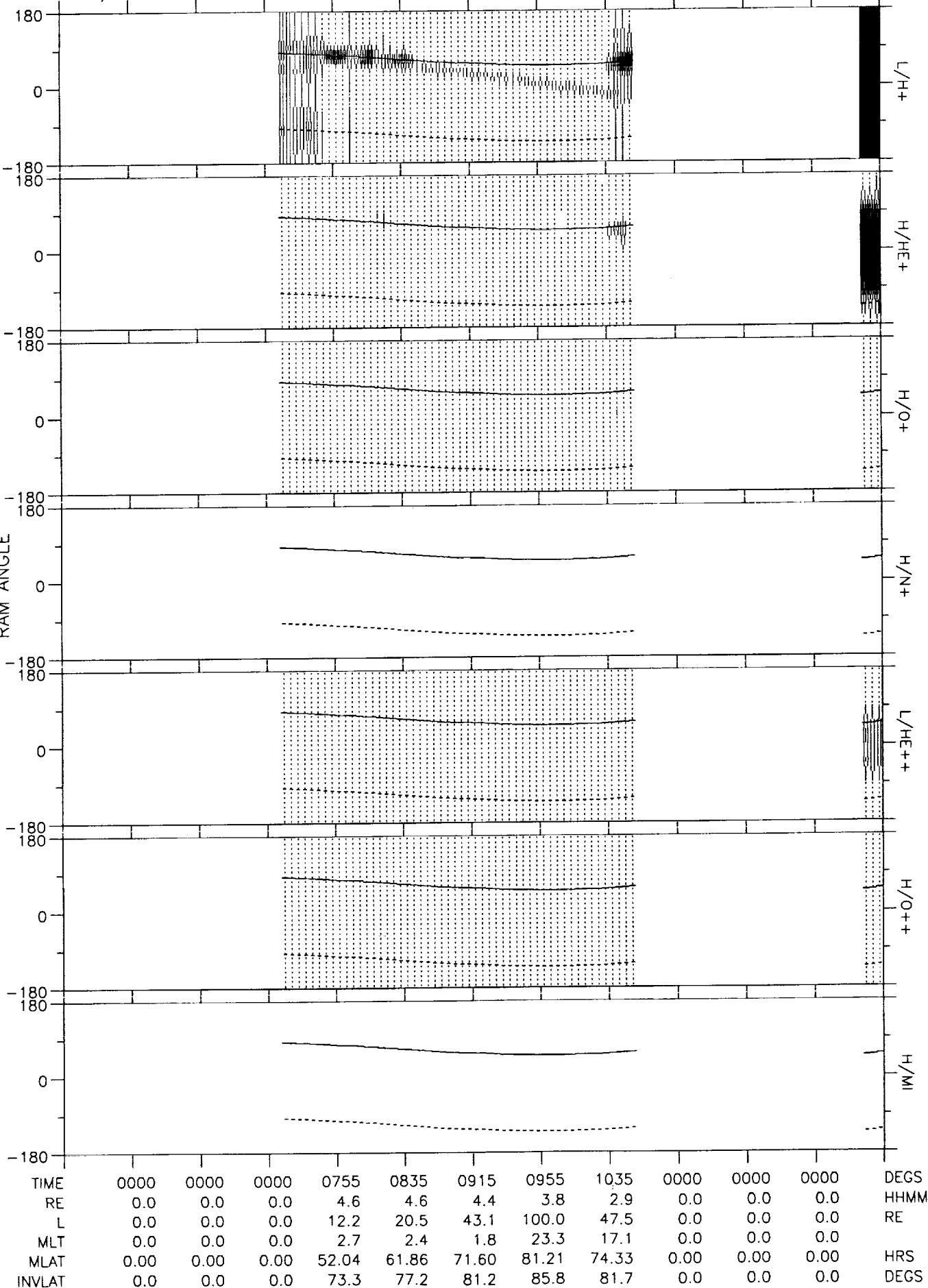
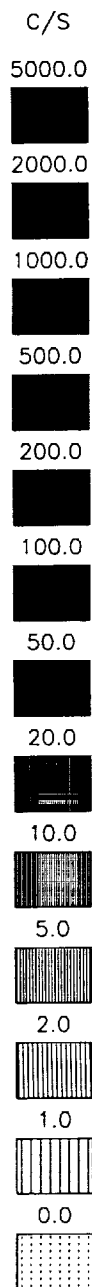
82/019 19-JAN 2230:00 - 0630:00 HEAD= RL RPA= 0 to 1000 BIAS = A



TIME	0000	0000	0000	0000	0150	0230	0310	0350	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	4.6	4.3	3.7	2.8	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	12.0	22.6	80.0	31.1	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	3.4	4.0	6.3	12.6	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	52.66	65.07	77.84	71.05	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	73.2	77.8	83.6	79.7	0.0	0.0	0.0	DEGS

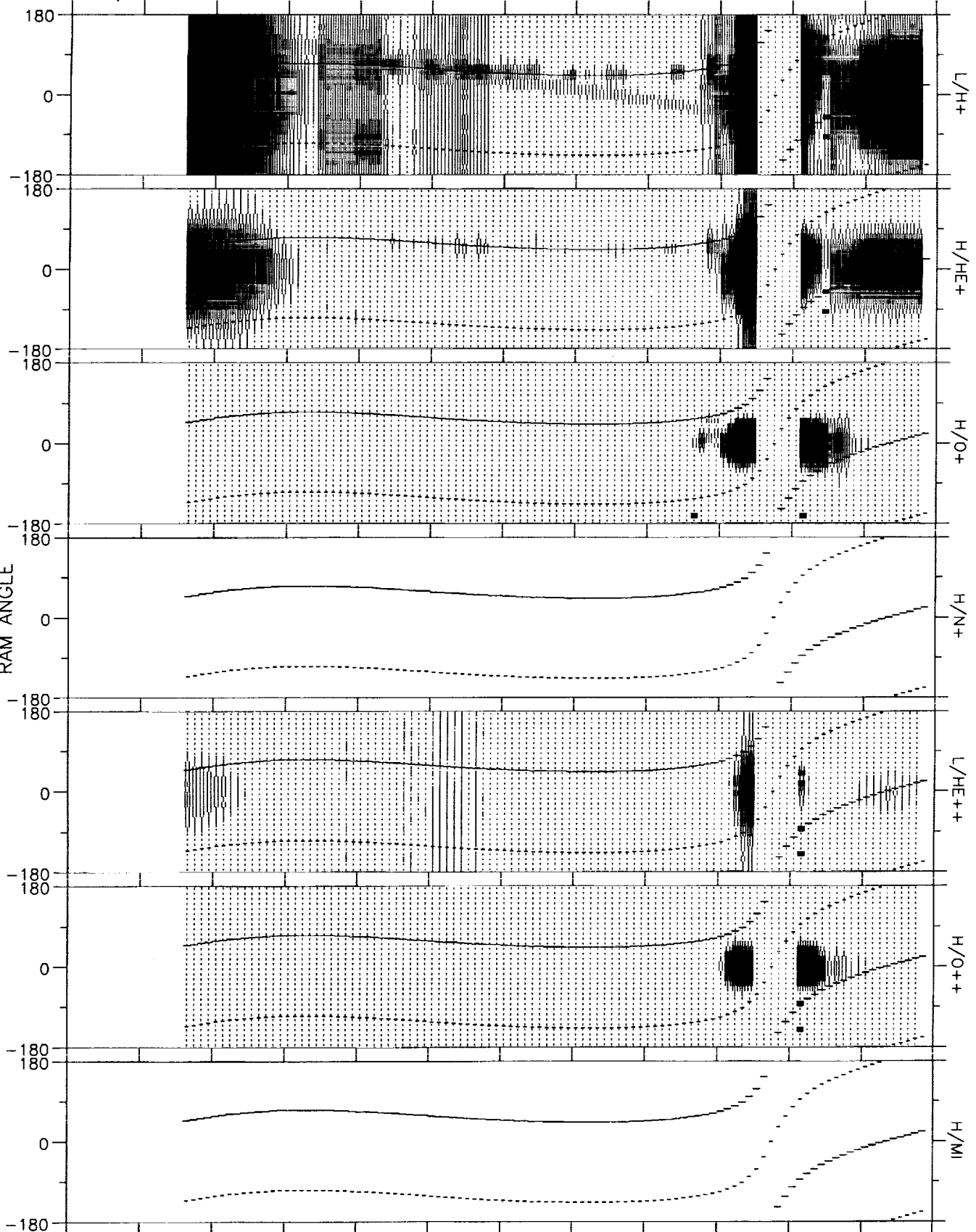
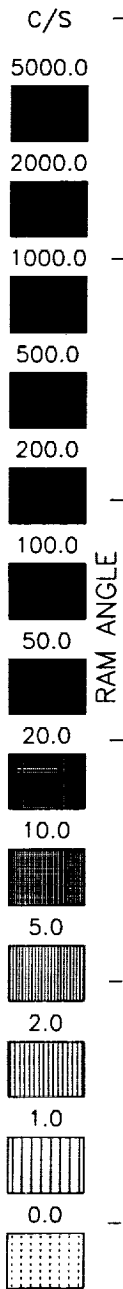
DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Mon Sep 6 12:05:33 1993

82/020 20-JAN 0515:00 - 1315:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN/RAOAL ALL (V1.0)
Mon Sep 6 12:07:10 1993

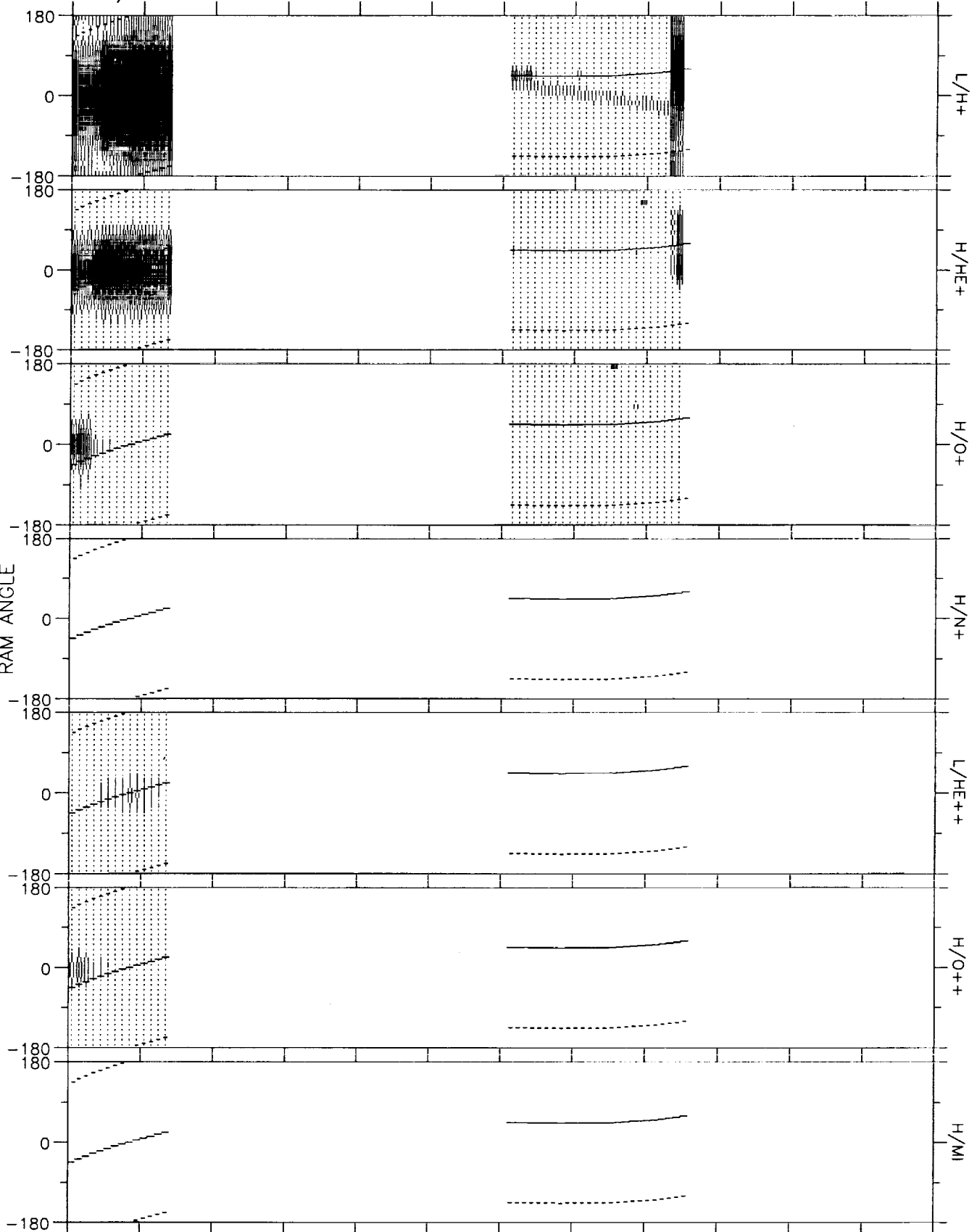
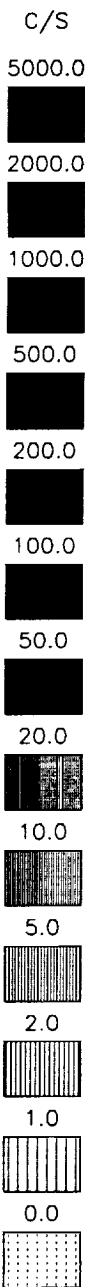
82/020 20-JAN 1200:00 - 2000:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	1320	1400	1440	1520	1600	1640	1720	1800	1840	1920	DEGS
RE	0.0	3.8	4.3	4.6	4.6	4.4	3.9	3.1	1.9	1.2	2.5	HHMM
L	0.0	3.9	5.2	6.7	8.7	12.1	21.6	100.0	6.9	18.7	3.1	RE
MLT	0.0	2.6	2.3	2.2	2.0	1.8	1.5	0.3	14.9	13.9	2.4	
MLAT	0.00	13.91	25.39	34.48	43.00	52.20	63.64	80.11	60.51	****	****	HRS
INVLAT	0.0	59.7	64.0	67.3	70.2	73.3	77.6	85.2	67.6	76.5	55.1	DEGS

DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Mon Sep 6 12:09:41 1993

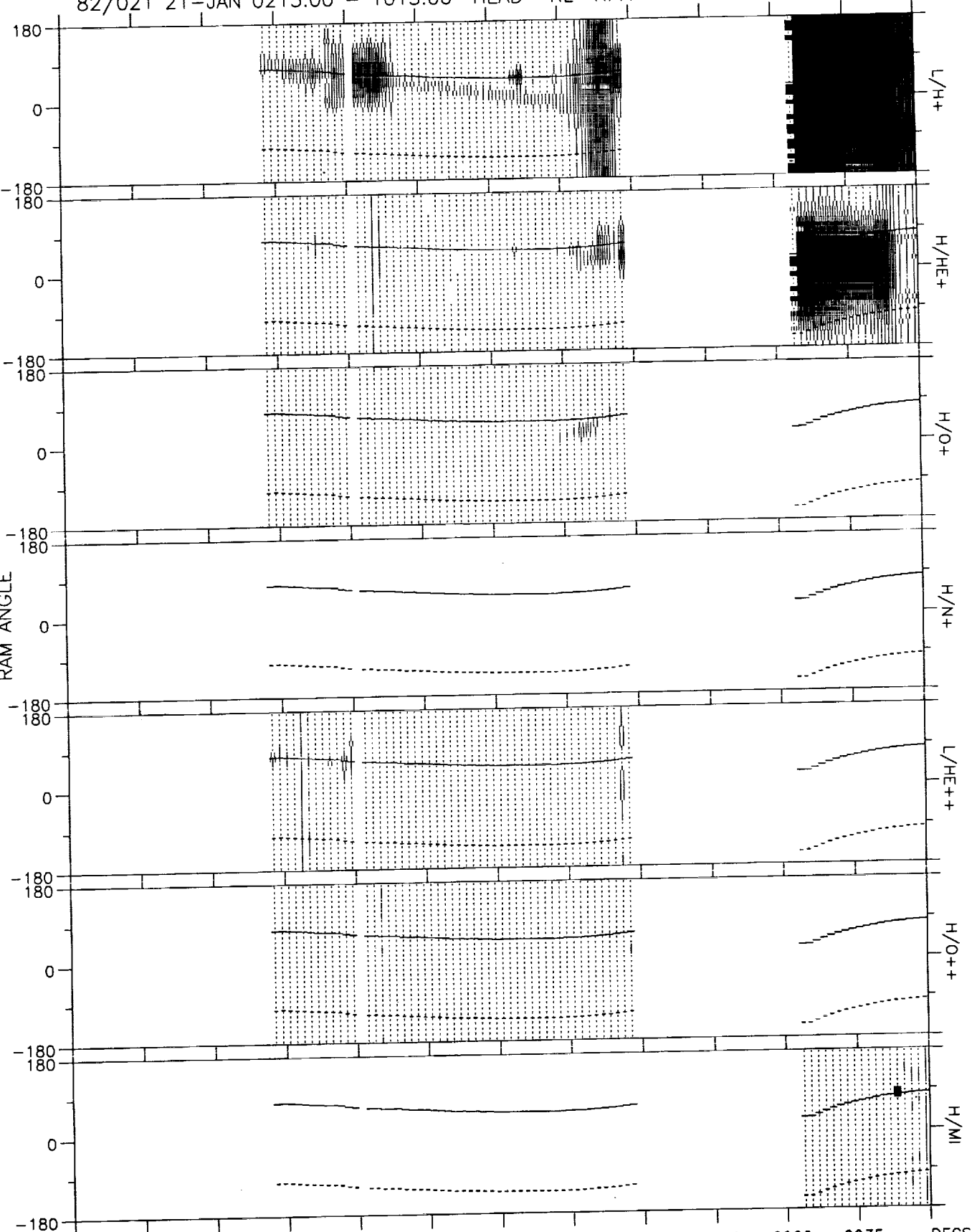
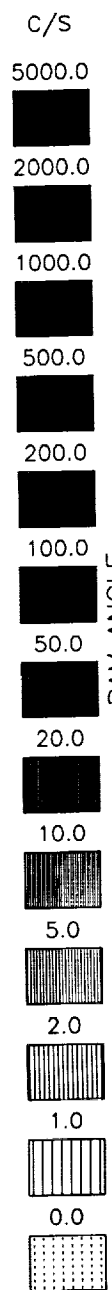
82/020 20-JAN 1900:00 - 0300:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1940	0000	0000	0000	0000	0000	2340	0020	0000	0000	0000	DEGS
RE	3.1	0.0	0.0	0.0	0.0	0.0	3.8	2.8	0.0	0.0	0.0	HHMM
L	3.1	0.0	0.0	0.0	0.0	0.0	31.9	84.2	0.0	0.0	0.0	RE
MLT	2.4	0.0	0.0	0.0	0.0	0.0	4.3	9.8	0.0	0.0	0.0	
MLAT	*****	0.00	0.00	0.00	0.00	0.00	69.32	77.95	0.00	0.00	0.00	HRS
INVLAT	55.6	0.0	0.0	0.0	0.0	0.0	79.8	83.7	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Mon Sep 6 12:11:08 1993

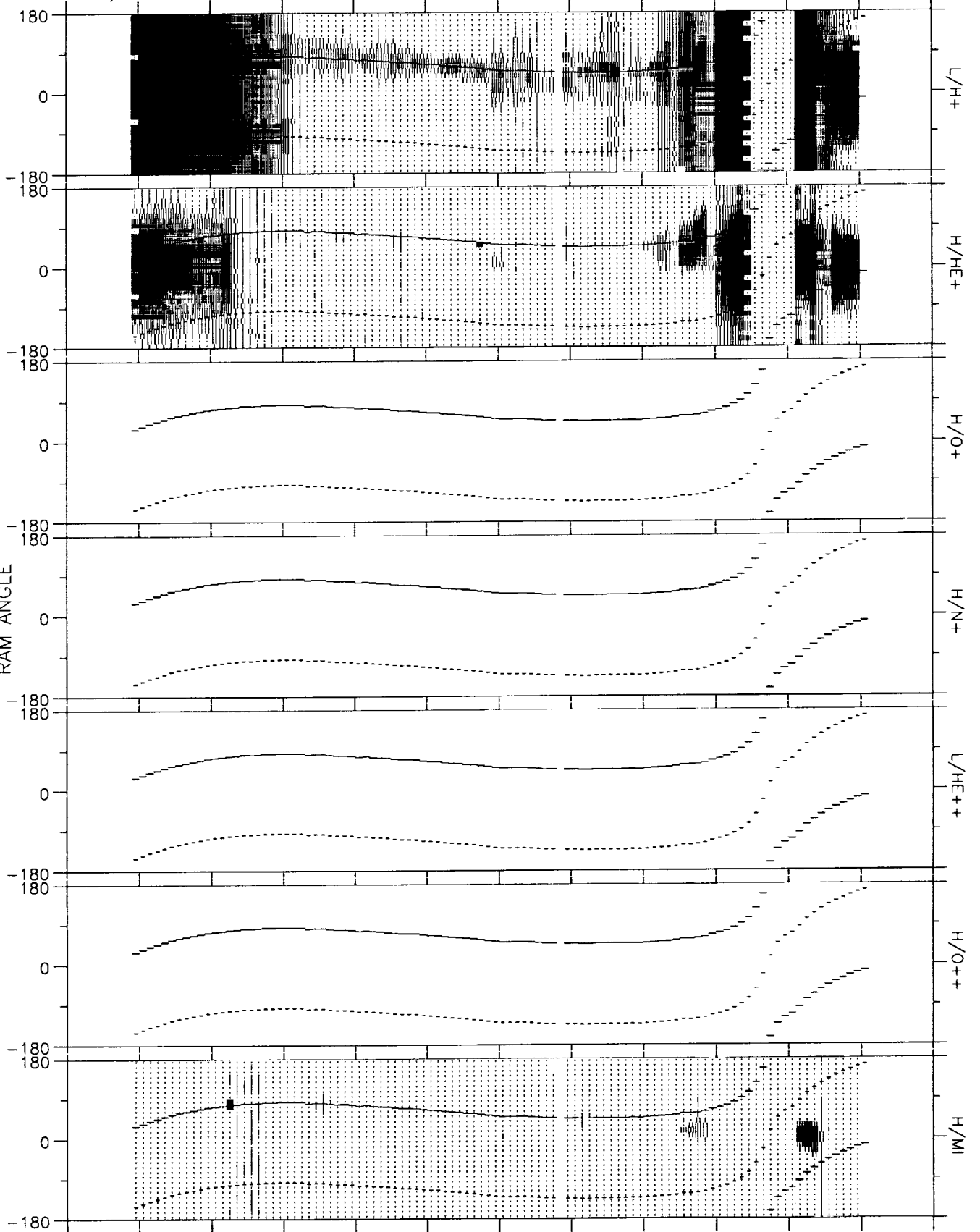
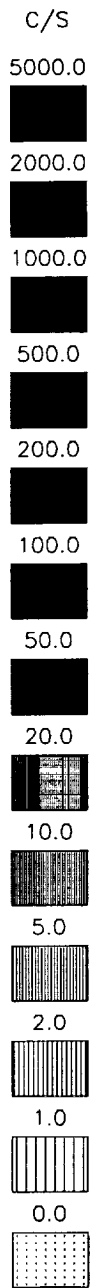
82/021 21-JAN 0215:00 - 1015:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0415	0000	0535	0615	0655	0000	0000	0000	0935	DEGS
RE	0.0	0.0	4.6	0.0	4.5	4.0	3.2	0.0	0.0	0.0	3.4	HHMM
L	0.0	0.0	8.6	0.0	29.0	100.0	100.0	0.0	0.0	0.0	3.7	RE
MLT	0.0	0.0	3.0	0.0	3.4	4.0	14.3	0.0	0.0	0.0	2.7	HRS
MLAT	0.00	0.00	44.60	0.00	68.18	81.30	80.62	0.00	0.00	0.00	15.59	HRS
INVLAT	0.0	0.0	70.1	0.0	79.3	85.0	85.5	0.0	0.0	0.0	58.6	DEGS

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Mon Sep 6 12:13:04 1993

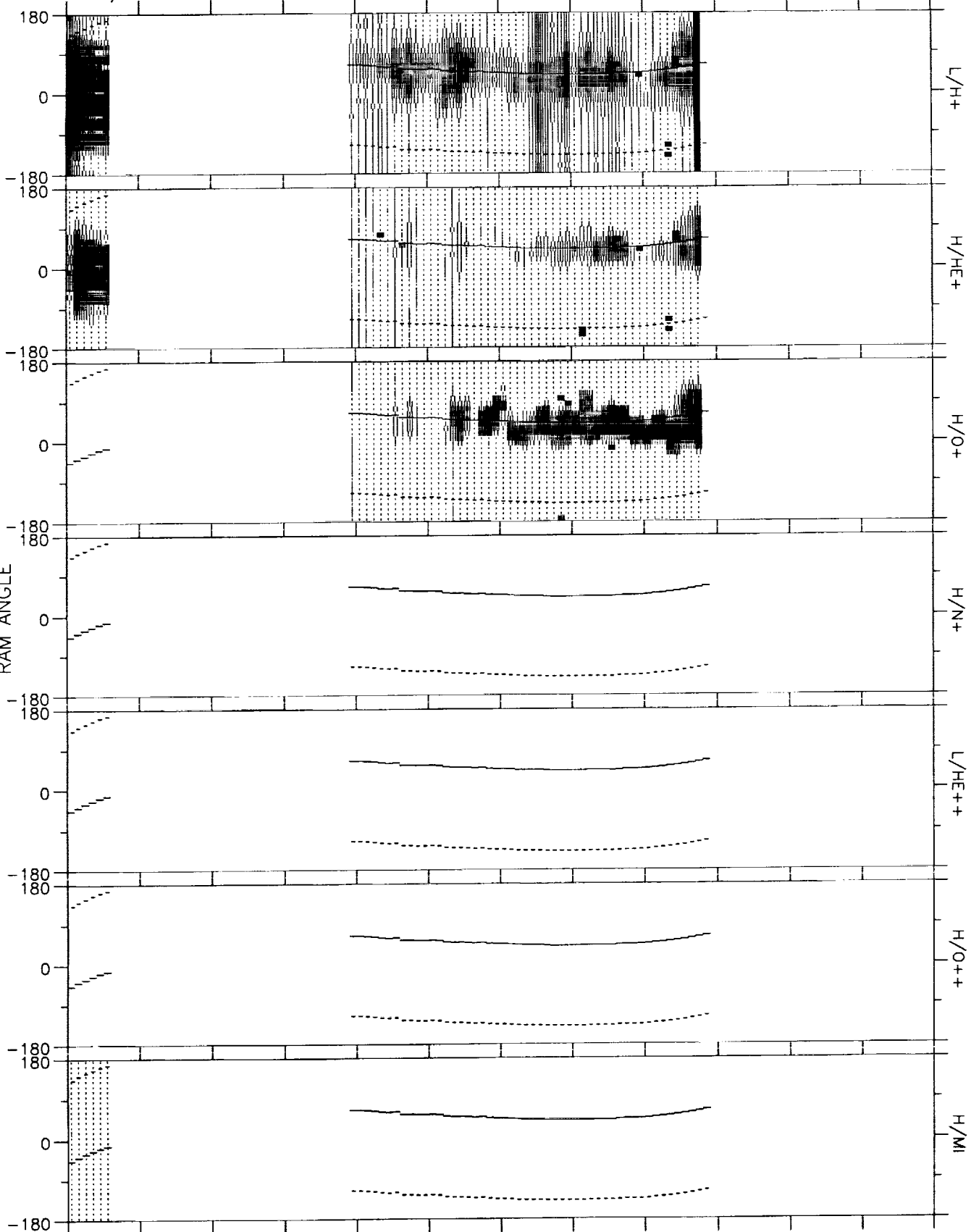
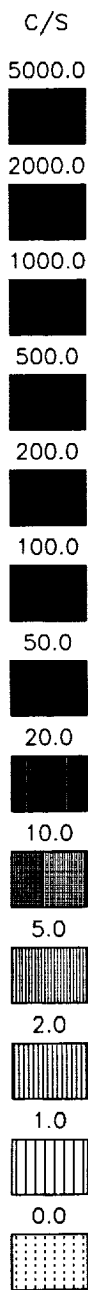
82/021 21-JAN 0830:00 - 1630:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0910	0950	1030	1110	1150	1230	1310	1350	1430	1510	1550	DEGS
RE	2.8	3.7	4.3	4.6	4.7	4.4	4.0	3.1	2.0	1.2	2.4	HHMM
L	2.8	4.3	6.3	8.7	12.0	17.8	33.8	100.0	5.5	8.2	3.0	RE
MLT	2.8	2.7	2.4	2.2	1.9	1.4	0.5	21.2	15.7	12.4	2.8	
MLAT	1.44	21.75	34.13	43.48	51.66	59.88	69.28	78.62	56.04	*****	*****	HRS
INVLAT	53.3	61.2	66.4	70.2	73.2	76.3	80.1	84.4	64.8	69.5	54.5	DEGS

DE RIMS SPIN SUMMARY
SPIN/RADIAL (V1.0)
Mon Sep 6 12:15:14 1993

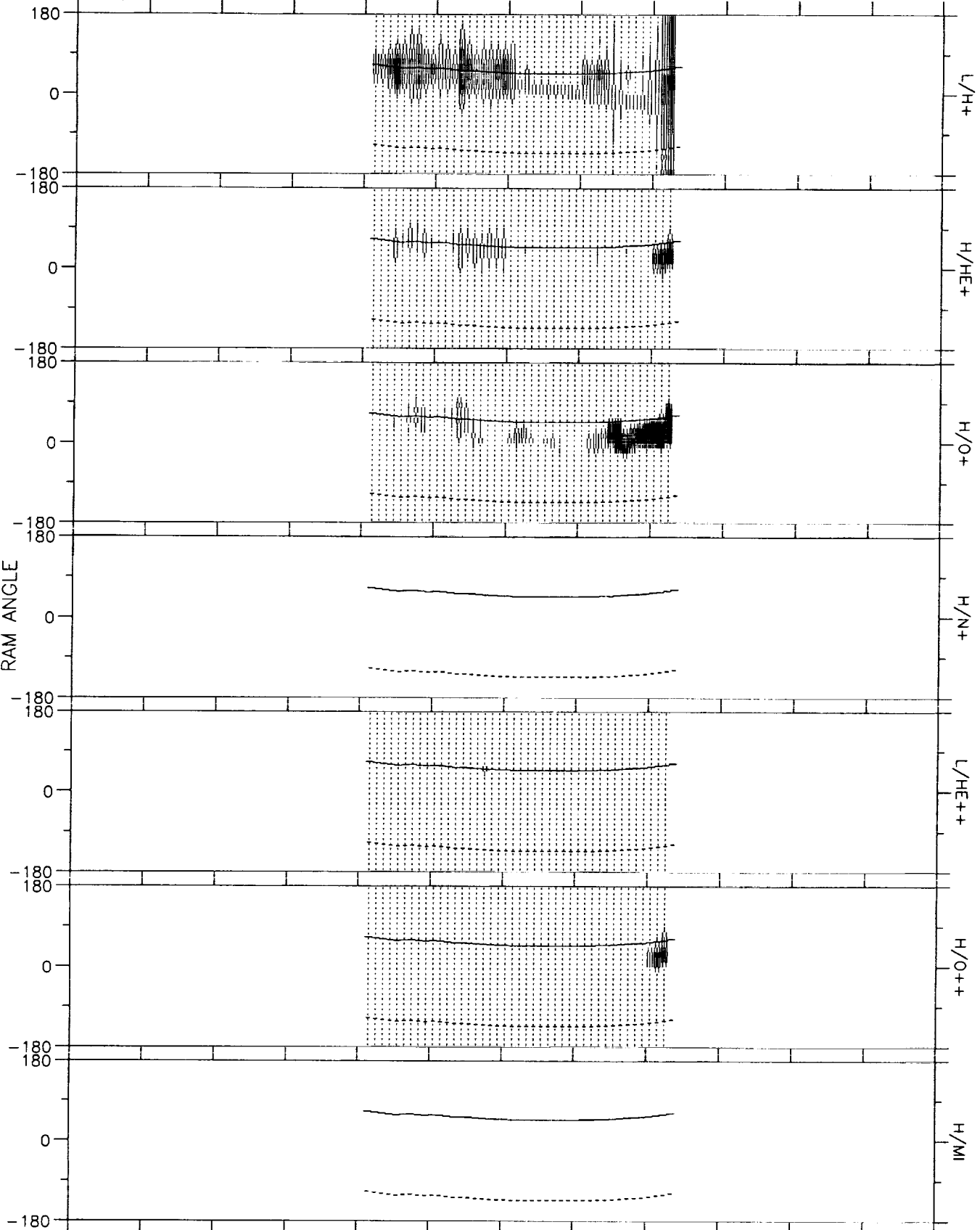
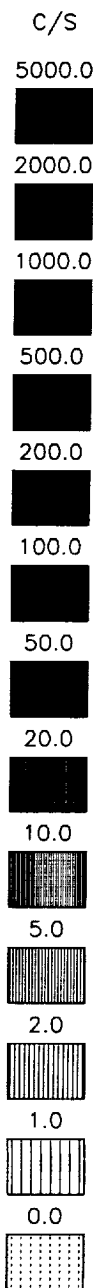
82/021 21-JAN 1530:00 - 2330:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	1810	1850	1930	2010	2050	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	4.6	4.6	4.4	3.8	2.9	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	6.2	8.0	11.4	22.3	100.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	2.3	2.3	2.4	2.7	5.3	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	29.50	39.58	50.67	64.35	83.38	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	66.3	69.3	72.8	77.8	87.1	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Mon Sep 6 12:16:50 1993

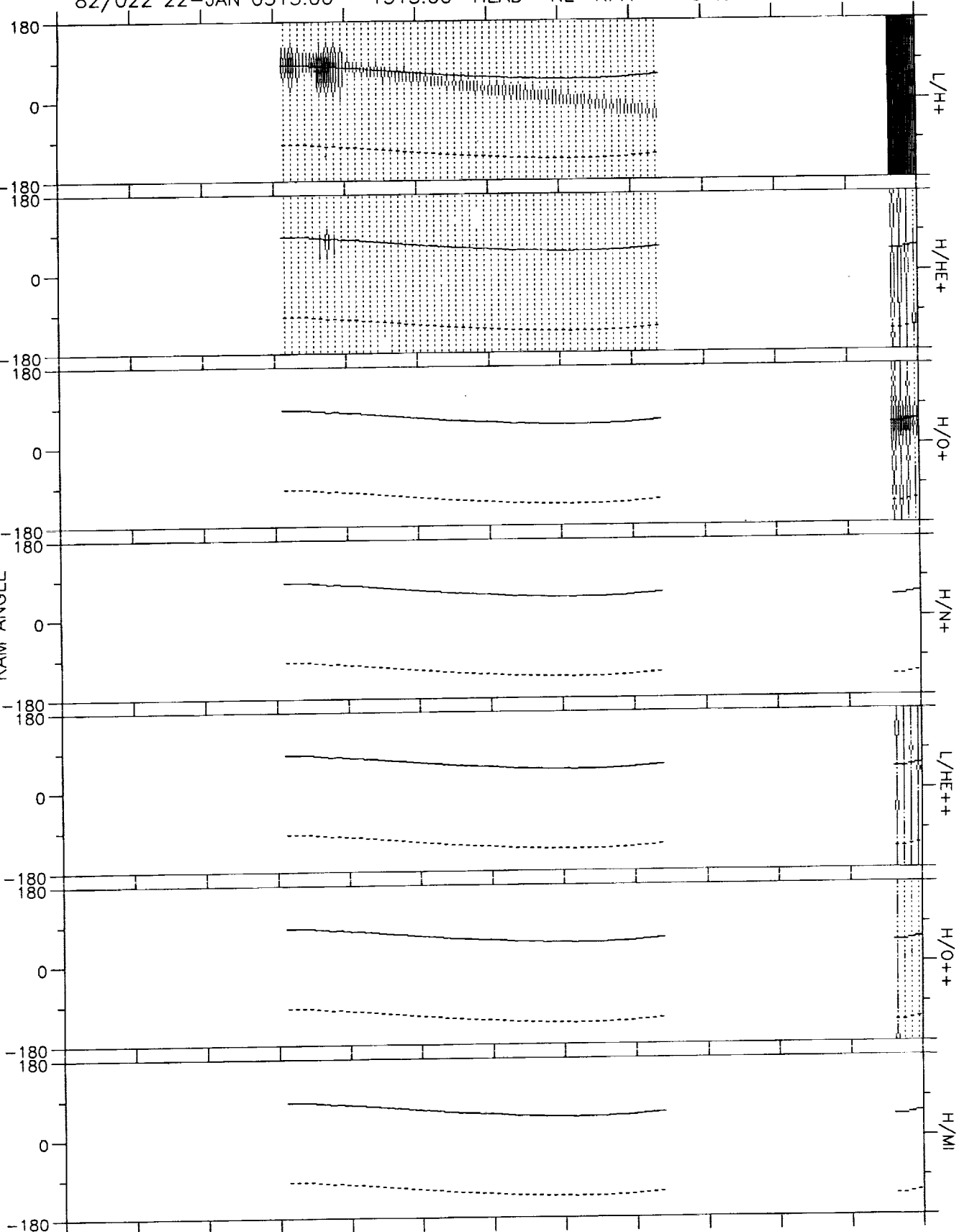
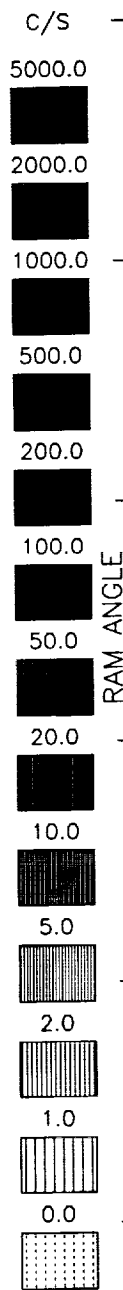
82/021 21-JAN 2230:00 - 0630:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0150	0230	0310	0350	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	4.6	4.3	3.6	2.6	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	12.4	24.0	92.7	22.8	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	3.3	4.0	6.5	12.8	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	53.53	66.08	78.75	68.50	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	73.5	78.2	84.0	77.9	0.0	0.0	0.0	DEGS

DE RINS SPIN SUMMARY
SPINRADIALALL (V1.0)
Mon Sep 6 12:18:20 1993

82/022 22-JAN 0515:00 - 1315:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0755	0835	0915	0955	1035	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	4.6	4.6	4.3	3.7	2.8	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	12.4	20.9	44.3	100.0	36.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	2.5	2.2	1.5	22.8	16.8	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	52.43	62.17	71.91	81.40	72.51	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	73.5	77.4	81.3	85.9	80.4	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Mon Sep 6 12:19:41 1993

82/022 22-JAN 1200:00 - 2000:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

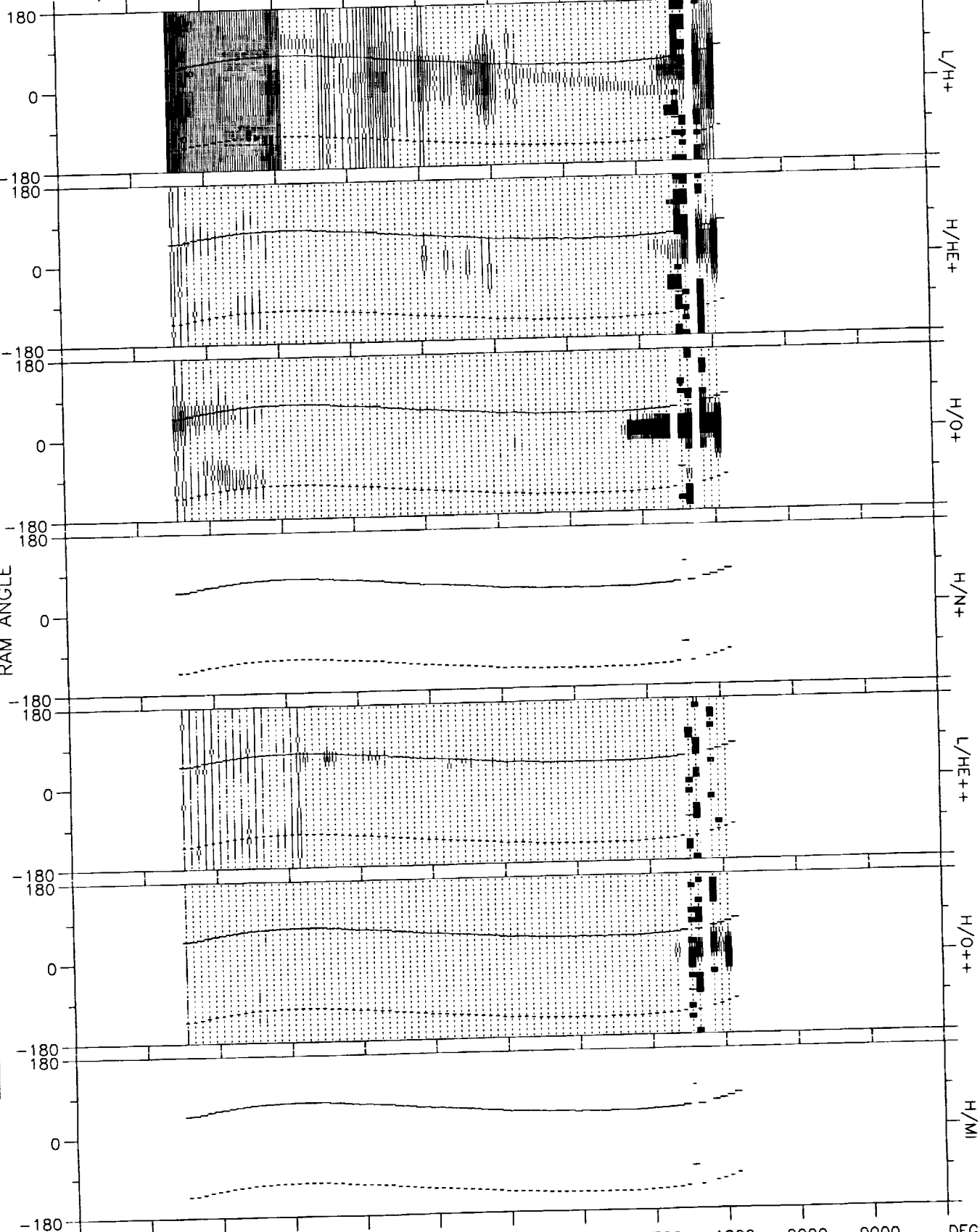
5.0

2.0

1.0

0.0

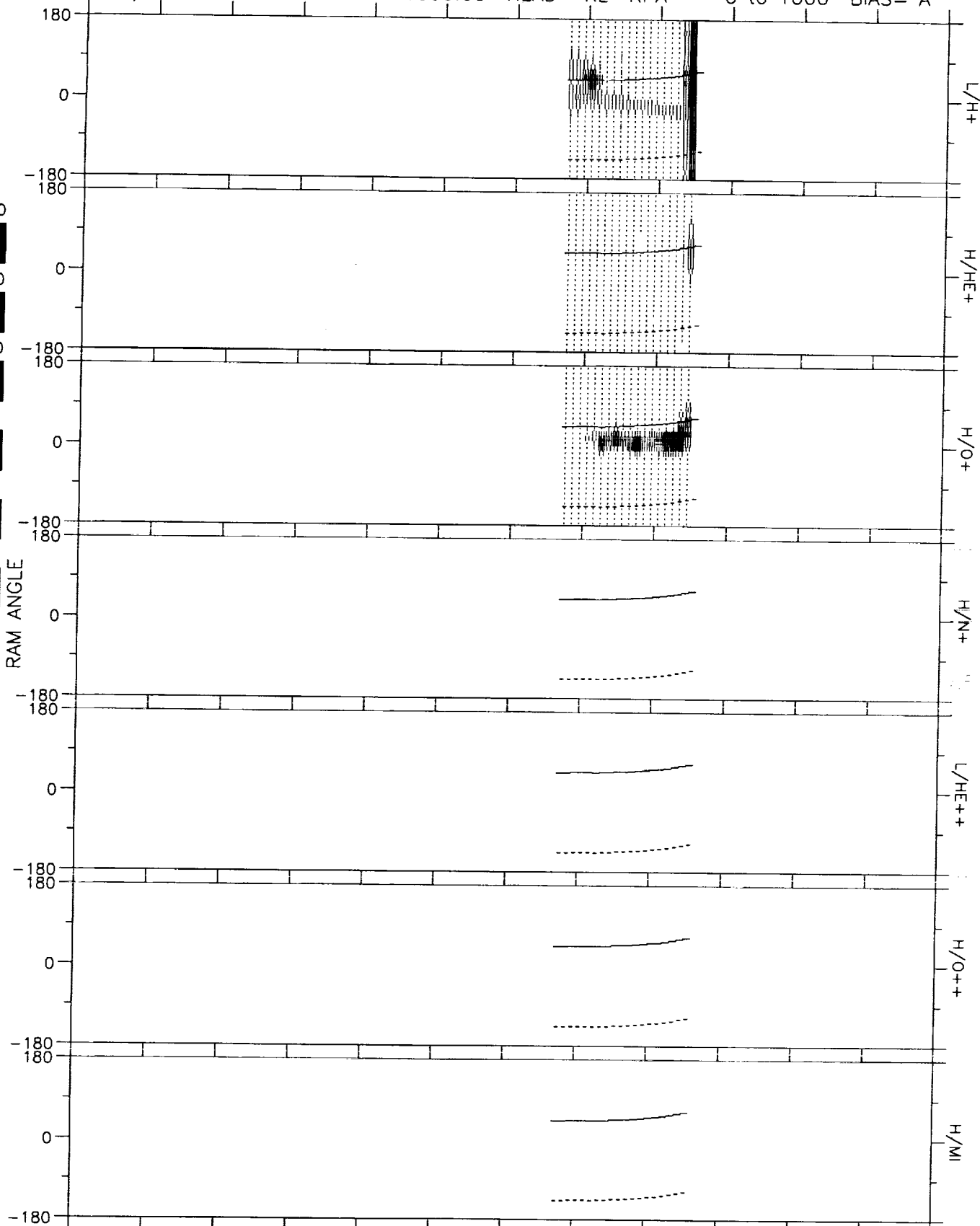
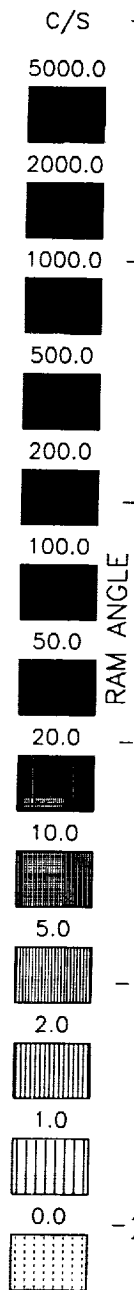
RAM ANGLE



TIME	0000	1320	1400	1440	1520	1600	1640	1720	1800	0000	0000	DEGS
RE	0.0	3.8	4.4	4.6	4.6	4.4	3.8	3.0	1.7	0.0	0.0	HHMM
L	0.0	4.0	5.3	6.8	8.8	12.2	22.6	100.0	4.5	0.0	0.0	RE
MLT	0.0	2.4	2.2	2.0	1.8	1.7	1.4	23.8	14.6	0.0	0.0	HRS
MLAT	0.00	14.55	25.65	34.62	43.17	52.57	64.43	81.78	53.64	0.00	0.00	DEGS
INVLAT	0.0	60.1	64.2	67.4	70.3	73.4	77.8	85.9	62.0	0.0	0.0	

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Mon Sep 6 12:21:53 1993

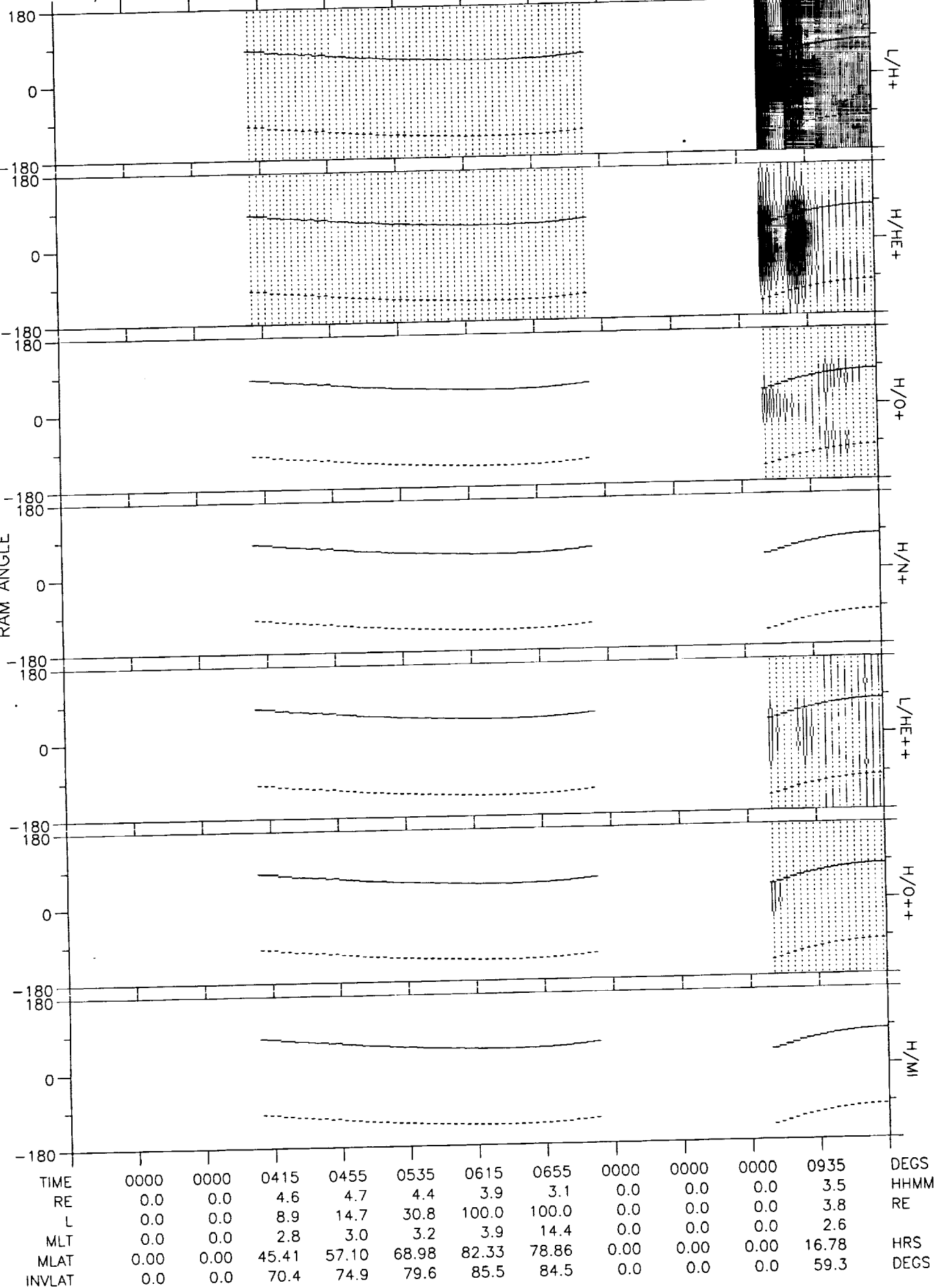
82/022 22-JAN 1900:00 - 0300:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	0000	2340	0020	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	3.7	2.7	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	35.0	61.1	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	4.3	10.4	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	70.47	76.50	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	80.3	82.7	0.0	0.0	0.0	DEGS

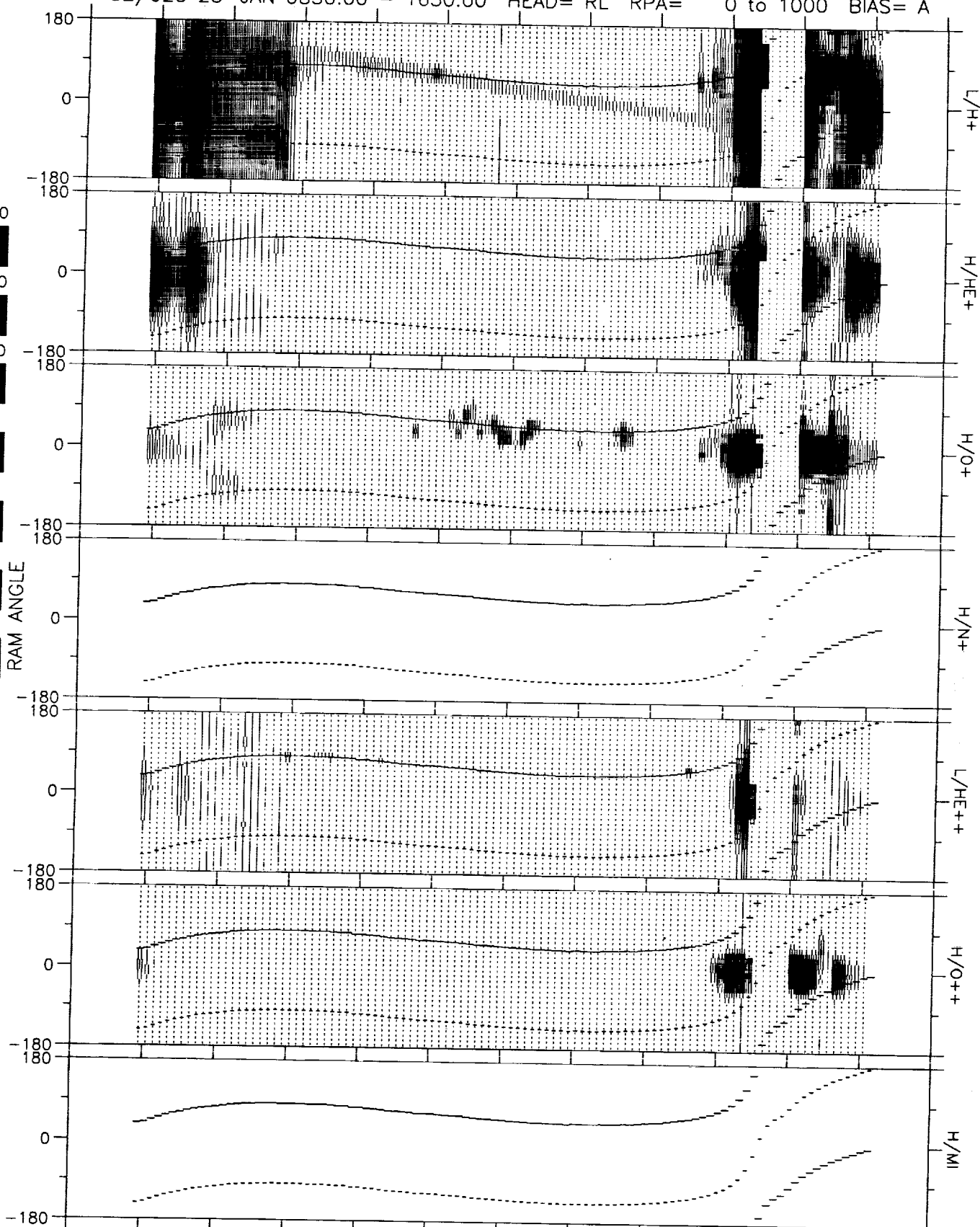
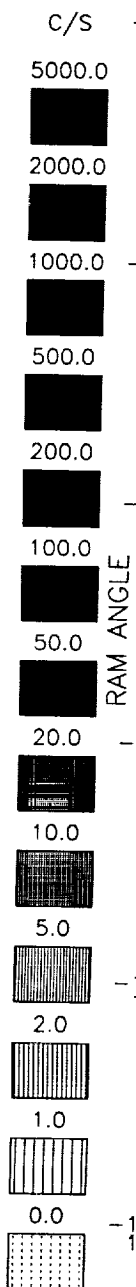
DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Mon Sep 6 12:23:04 1993

82/023 23-JAN 0215:00 - 1015:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Mon Sep 6 12:24:37 1993

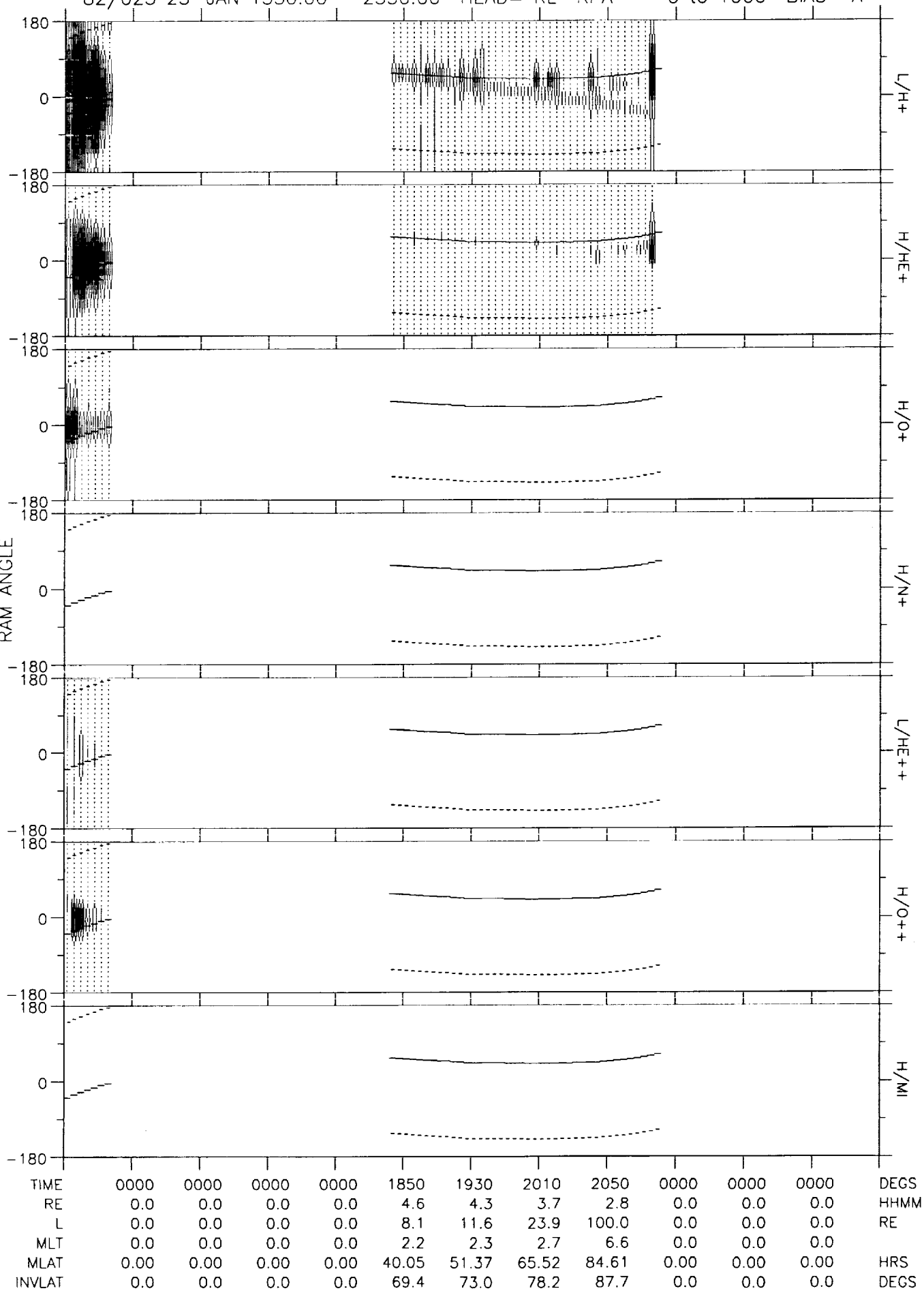
82/023 23-JAN 0830:00 - 1630:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0910	0950	1030	1110	1150	1230	1310	1350	1430	1510	1550	
RE	2.9	3.8	4.3	4.6	4.6	4.4	3.9	3.0	1.8	1.3	2.6	DEGS
L	2.9	4.5	6.4	8.8	12.1	17.9	35.0	100.0	3.9	32.5	3.0	HHMM
MLT	2.7	2.5	2.3	2.0	1.7	1.2	0.3	20.6	15.3	8.2	2.6	RE
MLAT	3.69	22.60	34.48	43.61	51.74	60.06	69.74	78.78	50.33	*****	*****	HRS
INVLAT	54.3	61.8	66.7	70.3	73.3	76.3	80.3	84.3	59.4	79.9	54.5	DEGS

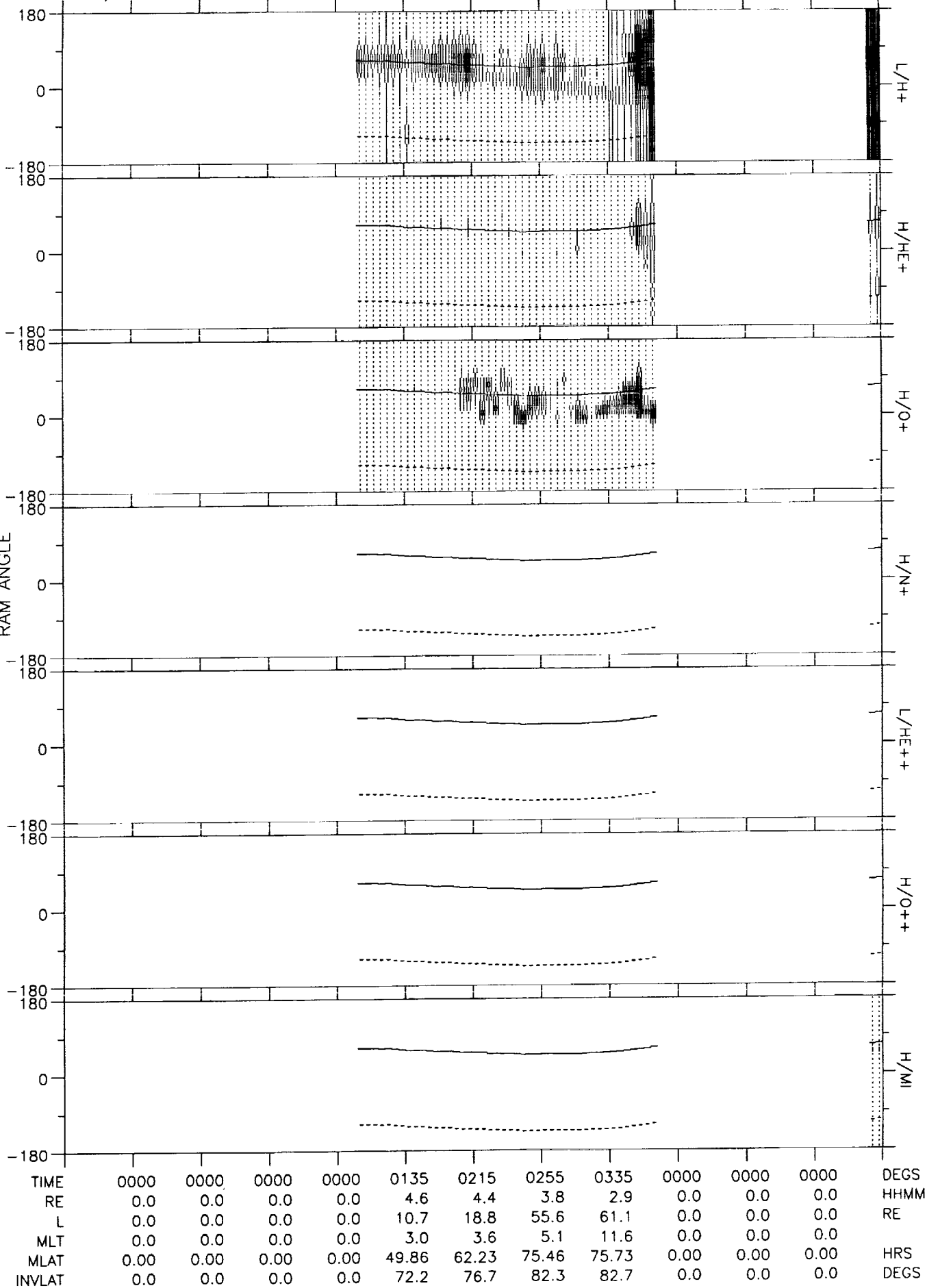
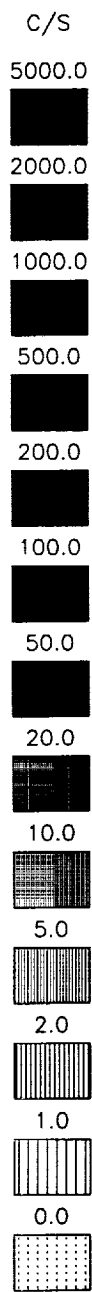
DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Mon Sep 6 12:27:03 1993

82/023 23-JAN 1530:00 - 2330:00 HEAD= RL RPA= 0 to 1000 BIAS= A



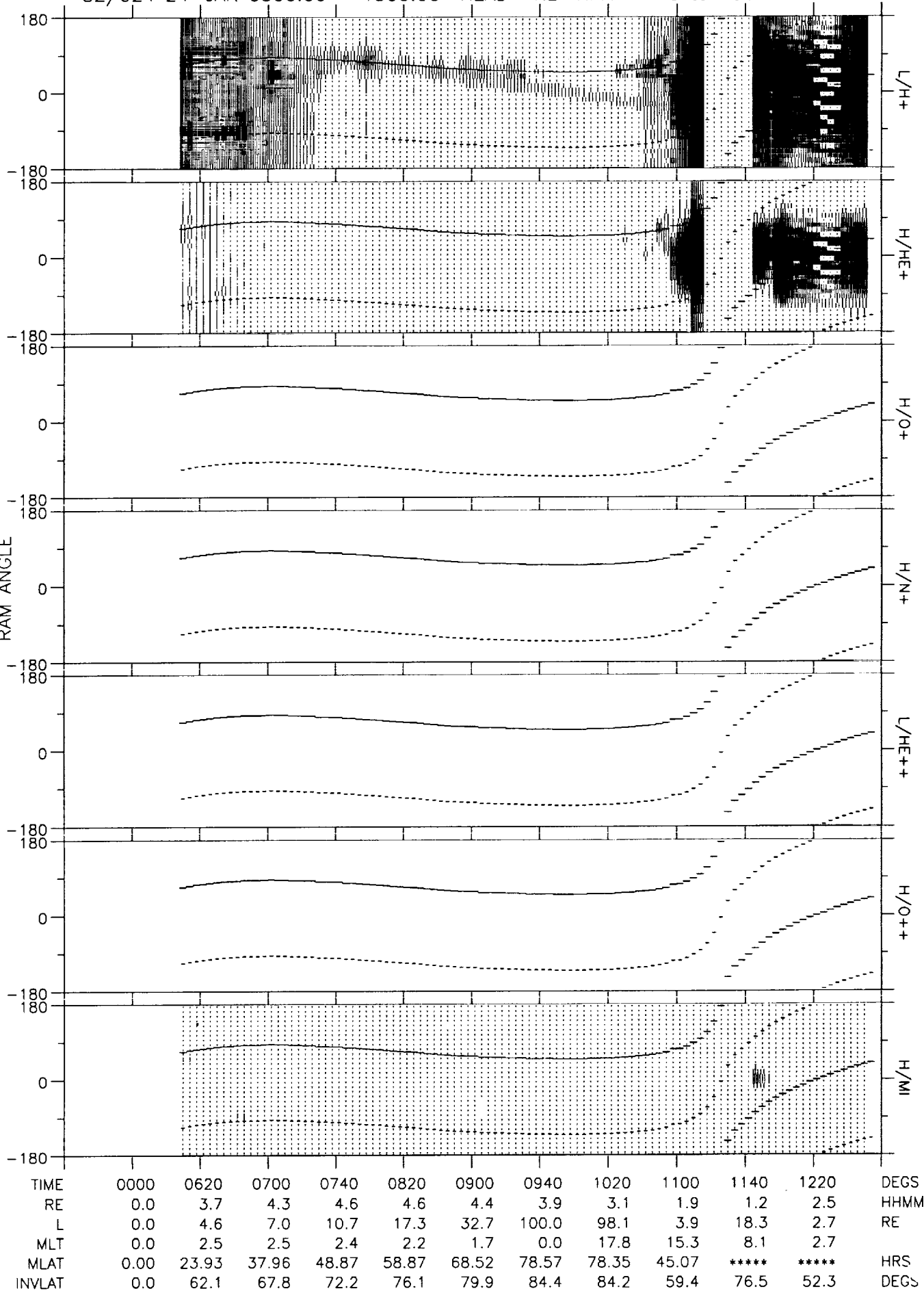
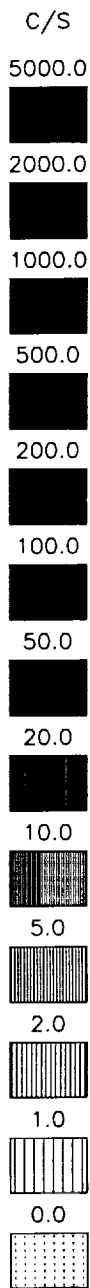
DE RIMS SPIN SUMMARY
SPIN/RADIAL/ALL (V1.0)
Mon Sep 6 12:28:25 1993

82/023 23-JAN 2215:00 - 0615:00 HEAD= RL RPA= 0 to 1000 BIAS= A



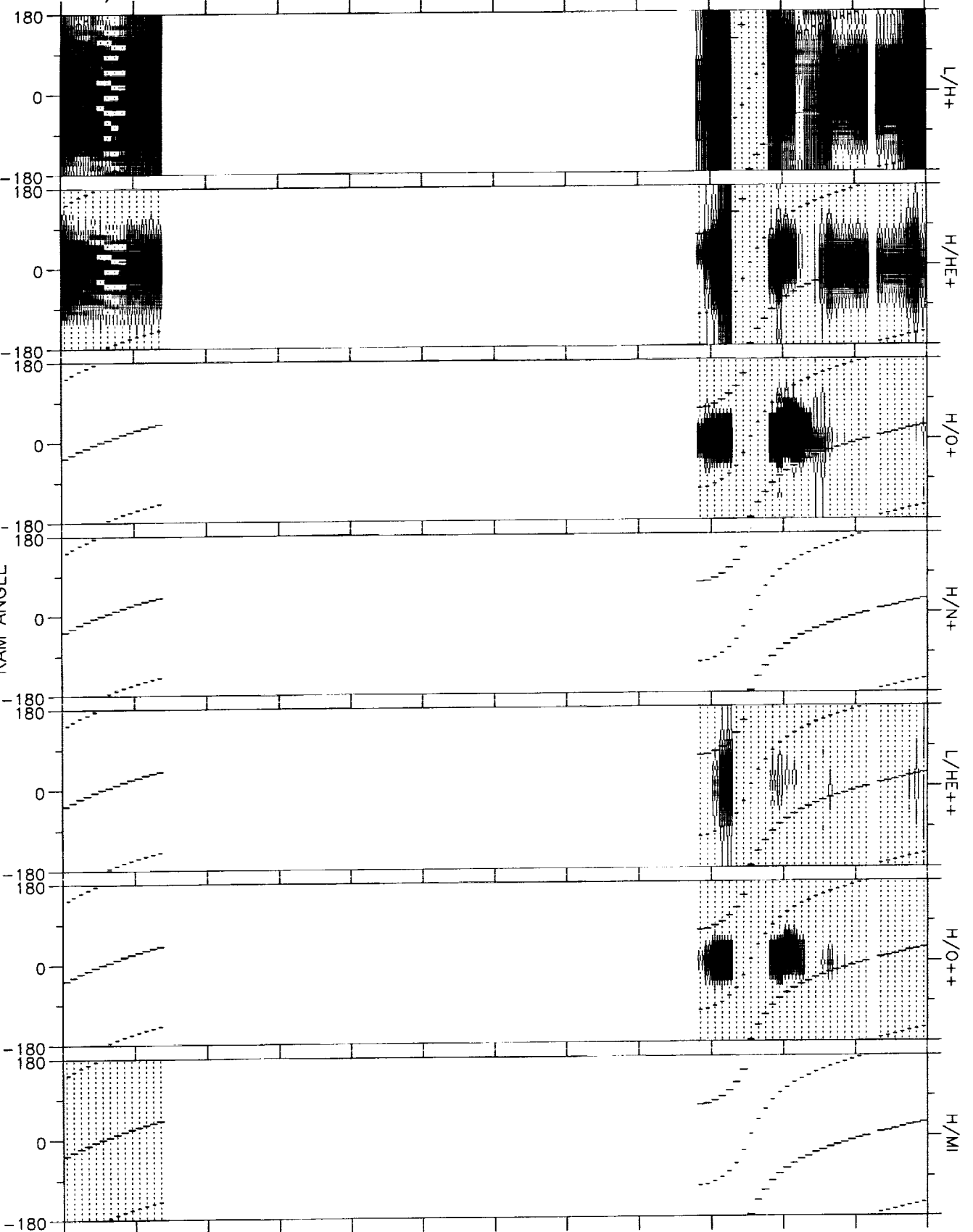
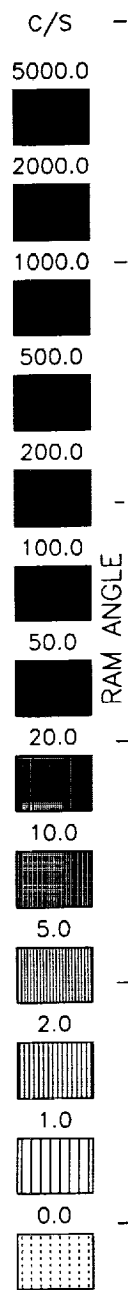
DE RMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Mon Sep 6 12:29:47 1993

82/024 24-JAN 0500:00 - 1300:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Mon Sep 6 12:31:47 1993

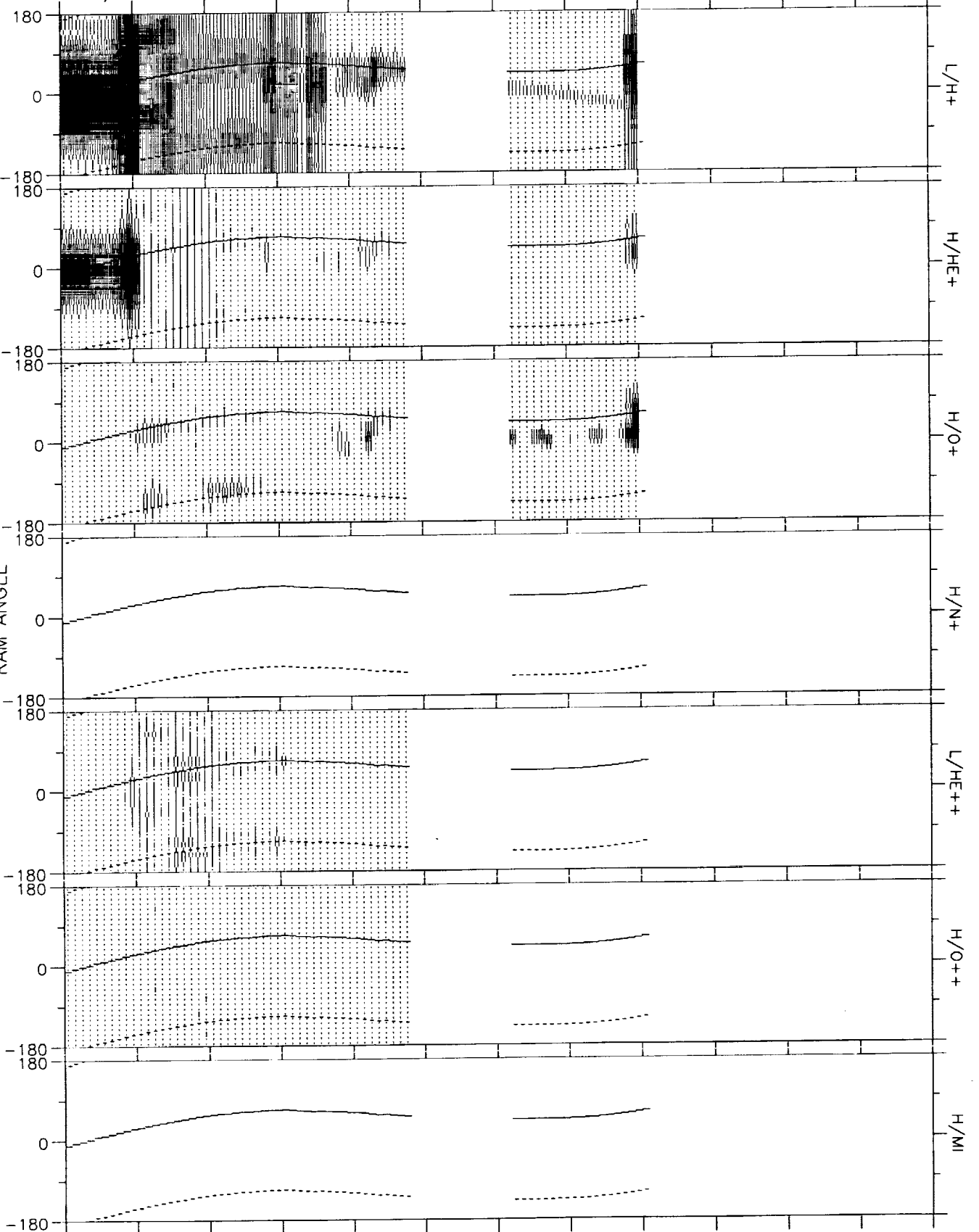
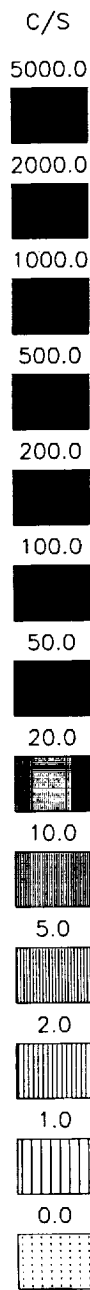
82/024 24-JAN 1200:00 - 2000:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1240	0000	0000	0000	0000	0000	0000	0000	1800	1840	1920	DEGS
RE	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.5	2.8	HHMM
L	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	30.9	3.1	RE
MLT	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	2.4	2.1	
MLAT	-1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.20	****	****	HRS
INVLAT	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.0	79.6	55.3	DEGS

DE RIMS SPIN SUMMARY
SPIN RADIAL CALL (V1.0)
Mon Sep 6 12:33:44 1993

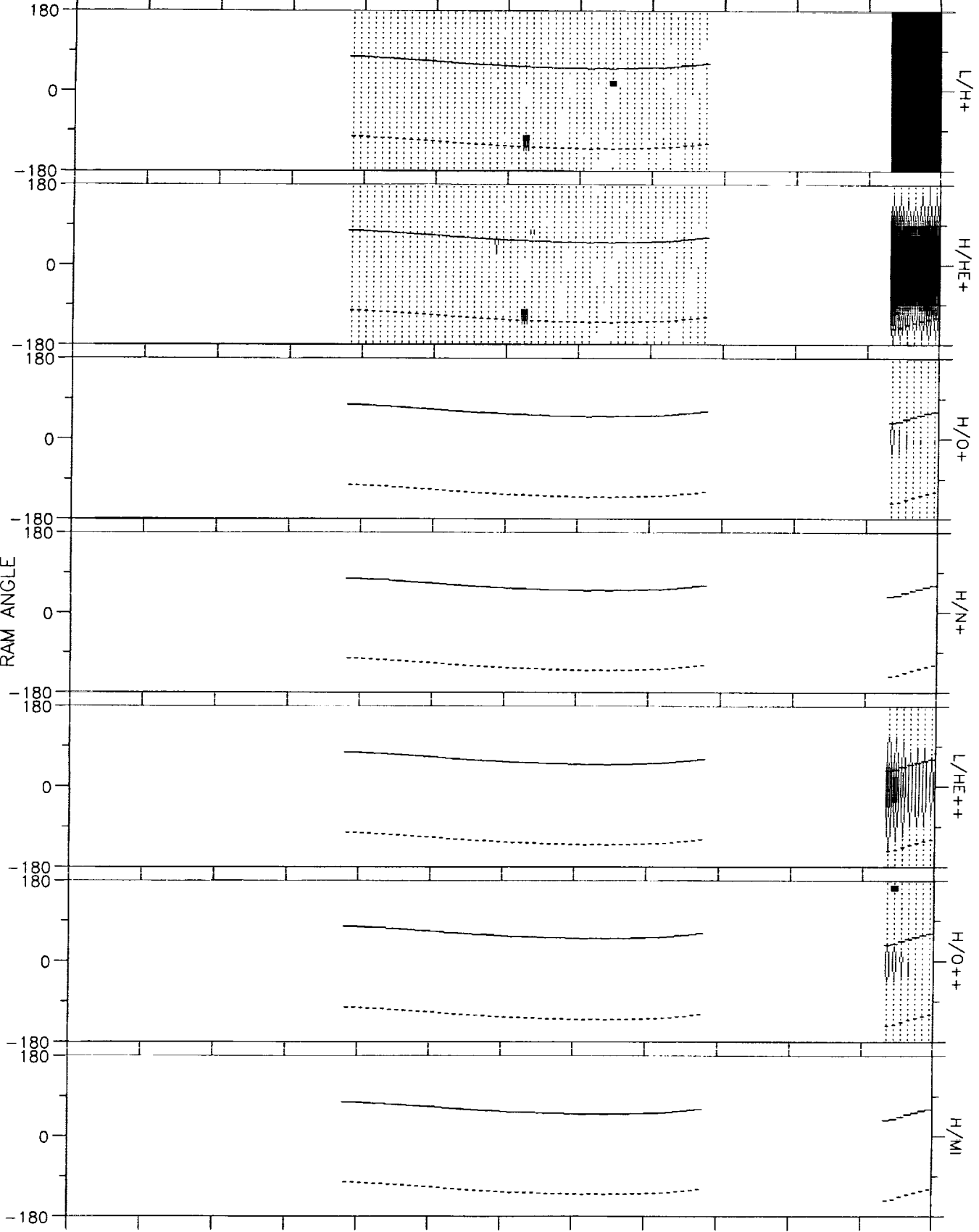
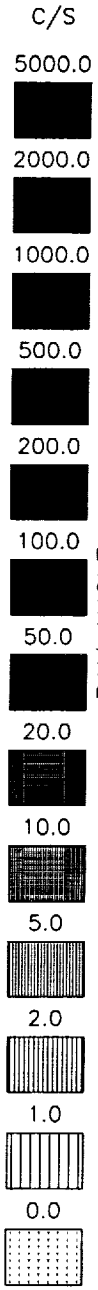
82/024 24-JAN 1915:00 - 0315:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1955	2035	2115	2155	0000	0000	2355	0035	0000	0000	0000	DEGS
RE	3.6	4.2	4.6	4.7	0.0	0.0	3.3	2.2	0.0	0.0	0.0	HHMM
L	3.6	4.5	5.7	7.5	0.0	0.0	77.8	11.0	0.0	0.0	0.0	RE
MLT	2.1	2.2	2.3	2.5	0.0	0.0	5.9	12.4	0.0	0.0	0.0	
MLAT	-1.31	13.74	26.02	37.47	0.00	0.00	77.06	63.23	0.00	0.00	0.00	HRS
INVLAT	58.0	61.9	65.3	68.6	0.0	0.0	83.5	72.4	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Mon Sep 6 12:35:32 1993

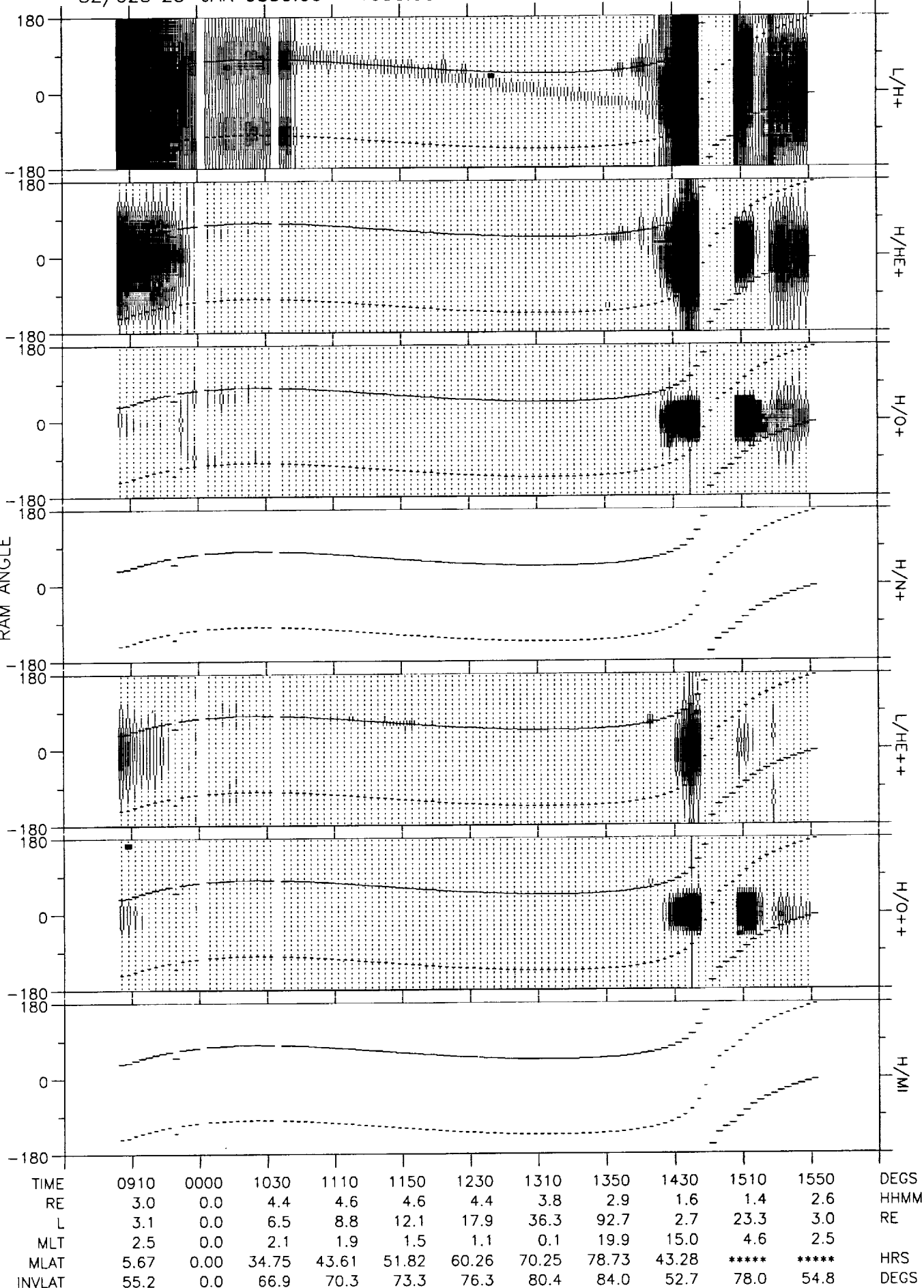
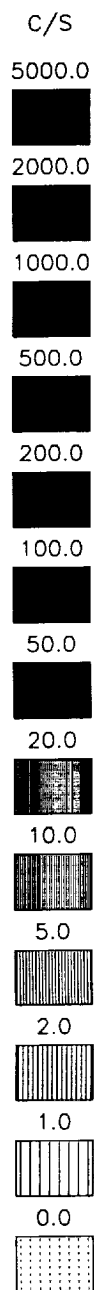
82/025 25-JAN 0130:00 - 0930:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0410	0450	0530	0610	0650	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	4.6	4.7	4.4	4.0	3.2	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	8.7	14.2	29.1	100.0	100.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	2.7	2.9	3.0	3.5	14.3	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	44.70	56.40	68.25	80.98	79.91	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	70.2	74.6	79.3	84.8	85.1	0.0	0.0	0.0	DEGS

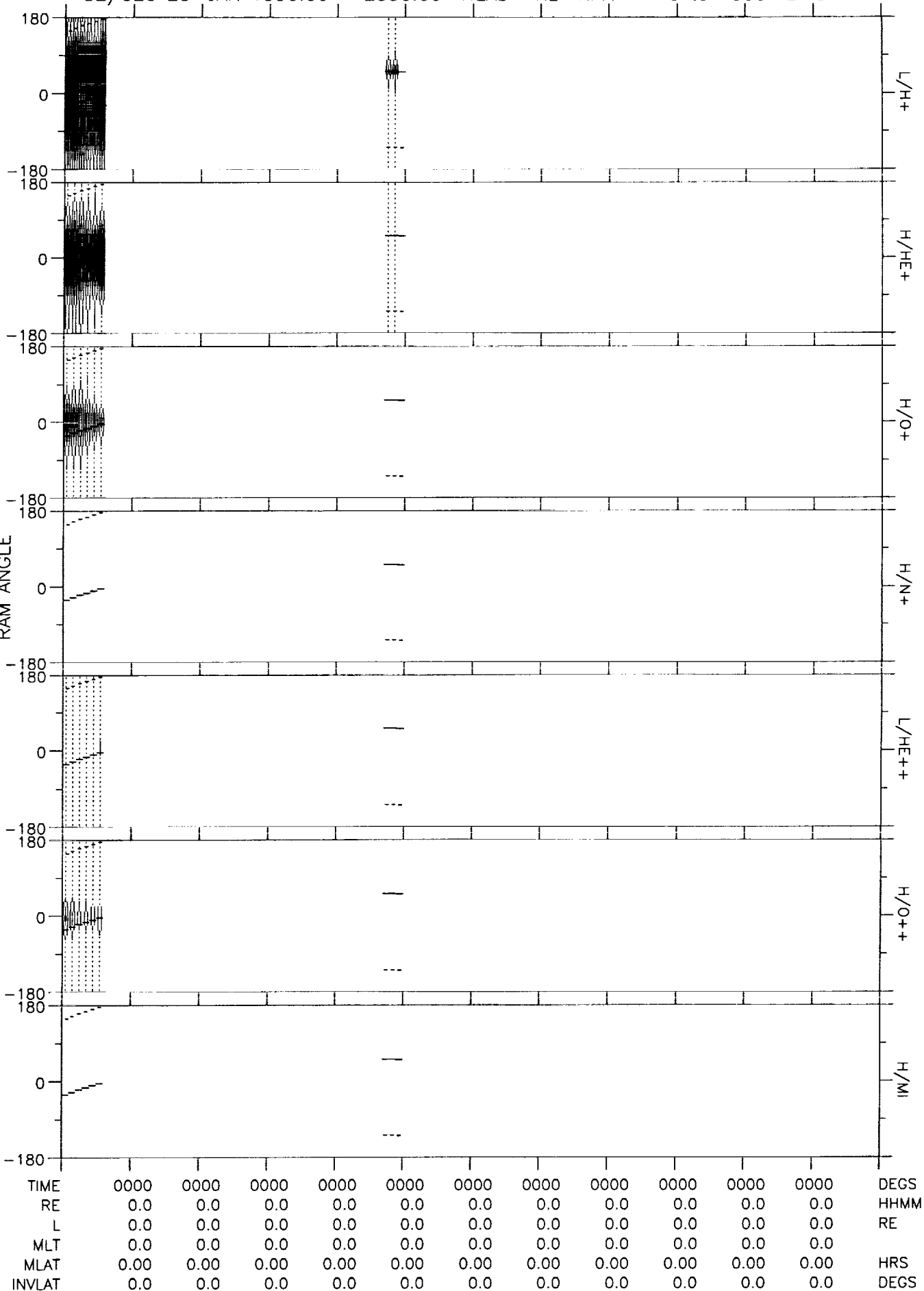
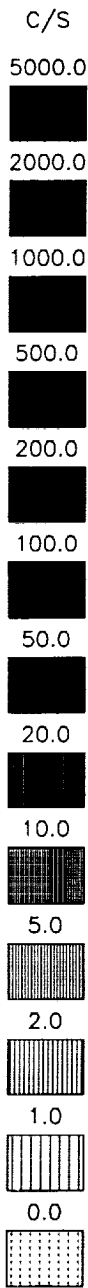
DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Mon Sep 6 12:36:58 1993

82/025 25-JAN 0830:00 - 1630:00 HEAD= RL RPA= 0 to 1000 BIAS= A



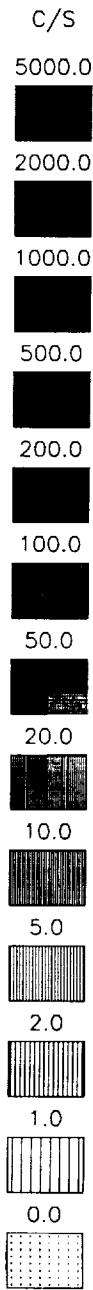
DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Mon Sep 6 12:39:26 1993

82/025 25-JAN 1530:00 - 2330:00 HEAD= RL RPA= 0 to 1000 BIAS= A

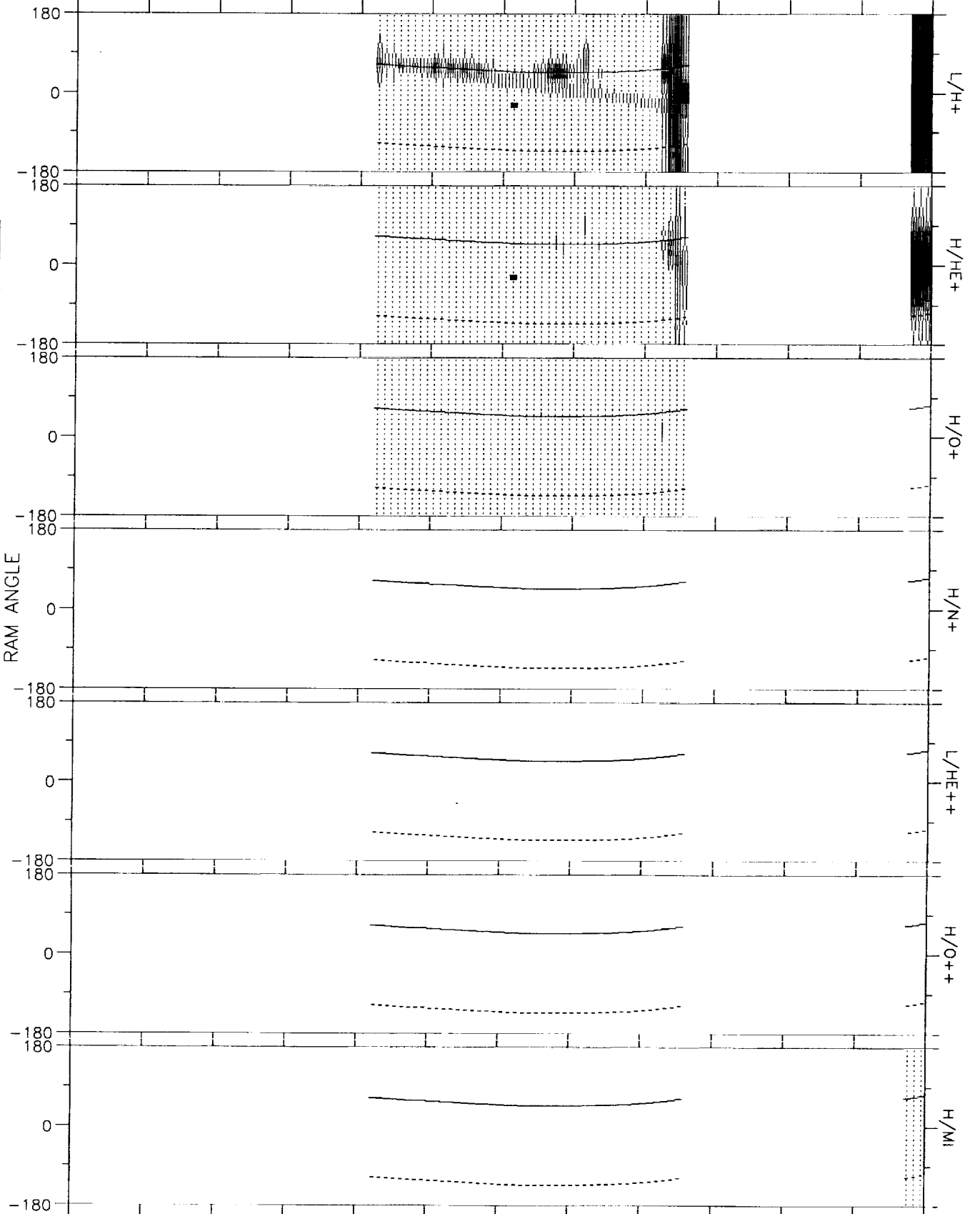


DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Mon Sep 6 12:40:38 1993

82/025 25-JAN 2215:00 - 0615:00 HEAD= RL RPA= 0 to 1000 BIAS= A



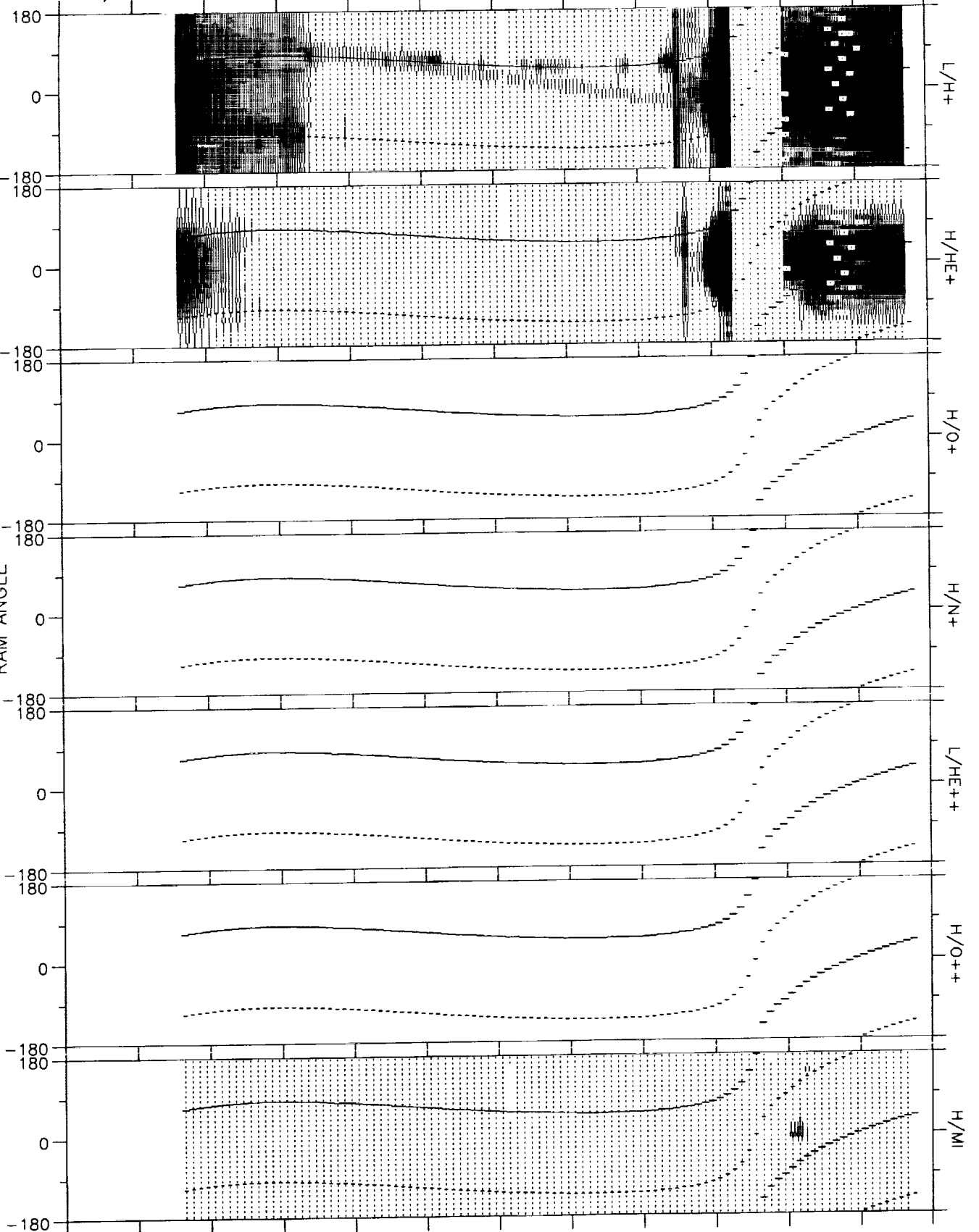
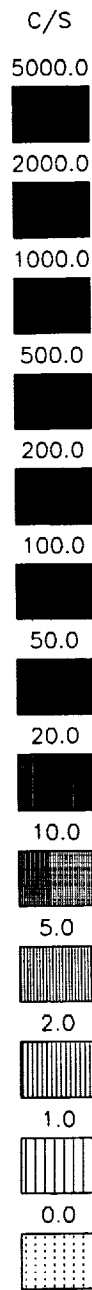
RAM ANGLE



TIME	0000	0000	0000	0000	0135	0215	0255	0335	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	4.6	4.3	3.7	2.8	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	11.0	19.7	63.3	44.9	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	2.9	3.5	5.2	11.9	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	50.74	63.19	76.54	73.83	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	72.5	77.0	82.8	81.4	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Mon Sep 6 15:38:15 1993

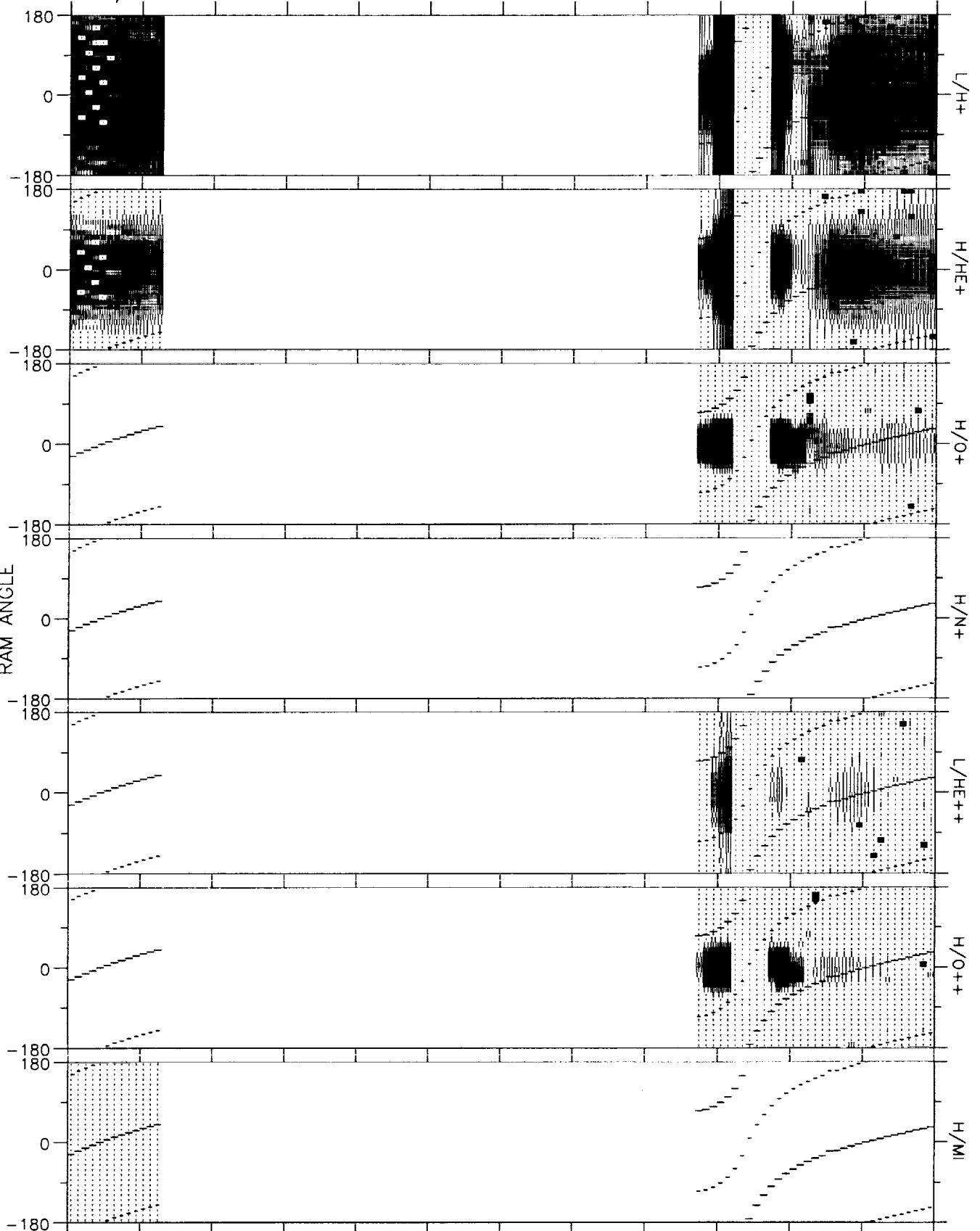
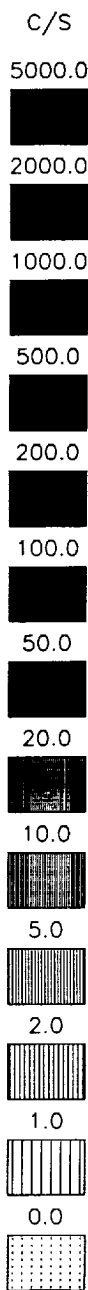
82/026 26-JAN 0500:00 - 1300:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0620	0700	0740	0820	0900	0940	1020	1100	1140	1220	DEGS
RE	0.0	3.8	4.4	4.6	4.6	4.4	3.8	3.0	1.7	1.3	2.6	HHMM
L	0.0	4.7	7.2	10.9	17.5	33.0	100.0	73.6	2.9	11.3	2.8	RE
MLT	0.0	2.4	2.4	2.2	2.0	1.4	23.7	17.3	15.0	4.7	2.5	HRS
MLAT	0.00	25.09	38.61	49.47	59.19	68.74	78.91	77.00	38.60	*****	*****	DEGS
INVLAT	0.0	62.6	68.1	72.4	76.2	80.0	84.5	83.3	53.7	72.7	52.9	

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Mon Sep 6 15:40:24 1993

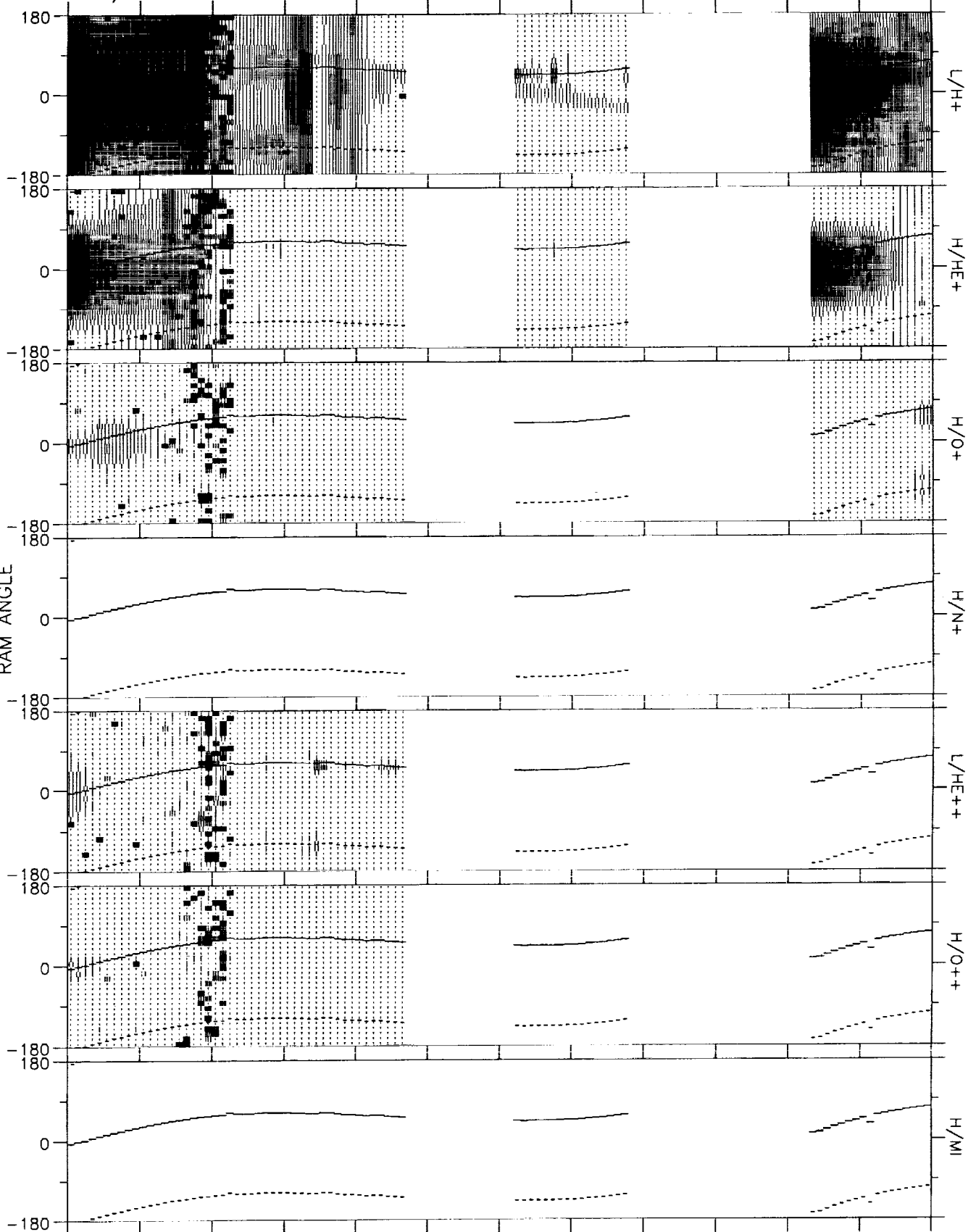
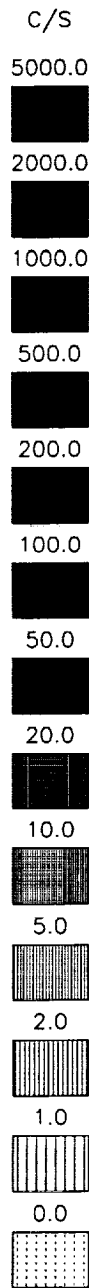
82/026 26-JAN 1200:00 - 2000:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1240	0000	0000	0000	0000	0000	0000	0000	1800	1840	1920	DEGS
RE	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.6	2.9	HHMM
L	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	10.6	3.1	RE
MLT	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.2	2.1	2.0	
MLAT	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.75	*****	*****	HRS
INVLAT	55.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.4	72.1	55.6	DEGS

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Mon Sep 6 15:42:30 1993

82/026 26-JAN 1915:00 - 0315:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1955	2035	2115	2155	0000	0000	2355	0000	0000	0000	0235	DEGS
RE	3.7	4.3	4.6	4.7	0.0	0.0	3.2	0.0	0.0	0.0	3.5	HHMM
L	3.6	4.6	5.8	7.6	0.0	0.0	90.3	0.0	0.0	0.0	3.6	RE
MLT	2.0	2.1	2.2	2.4	0.0	0.0	6.3	0.0	0.0	0.0	2.0	
MLAT	-0.08	14.54	26.69	38.15	0.00	0.00	77.94	0.00	0.00	0.00	10.63	HRS
INVLAT	58.4	62.2	65.5	68.8	0.0	0.0	84.0	0.0	0.0	0.0	58.2	DEGS

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Mon Sep 6 15:44:41 1993

82/027 27-JAN 0130:00 - 0930:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

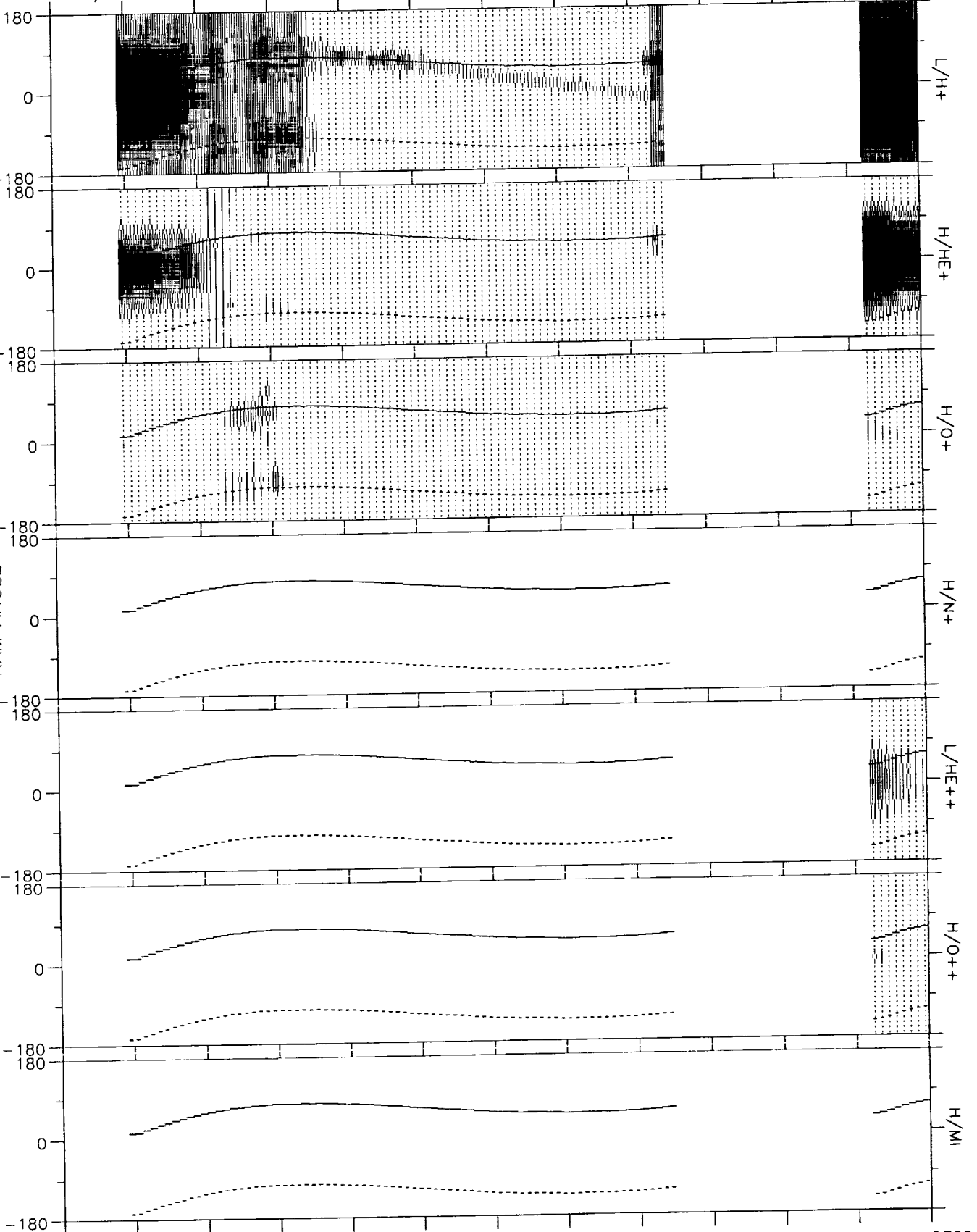
5.0

2.0

1.0

0.0

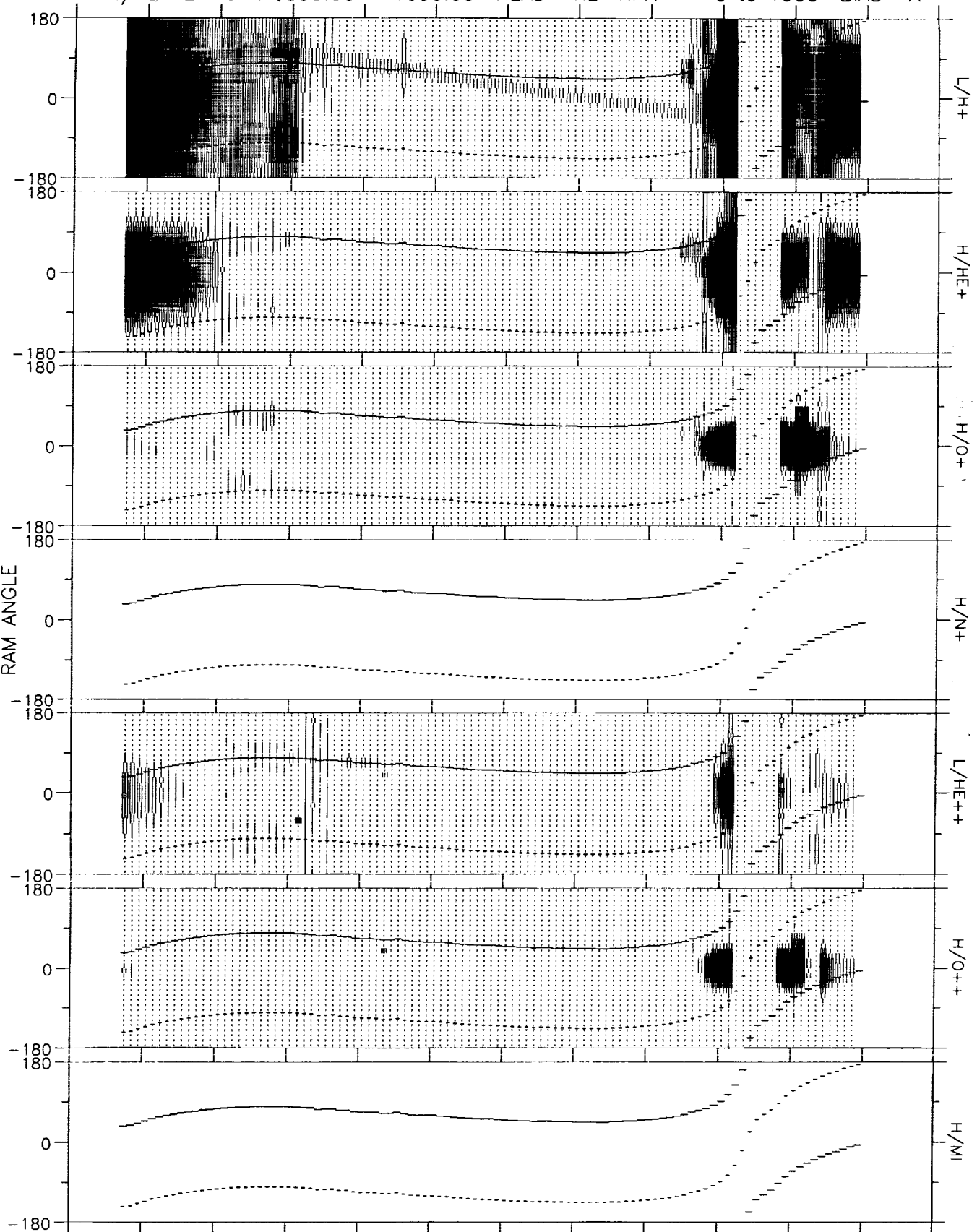
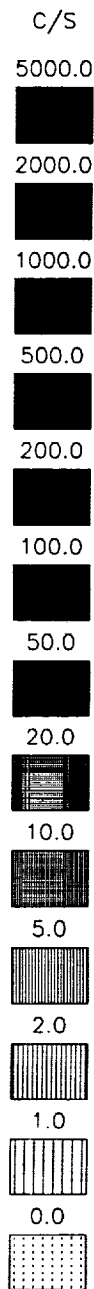
RAM ANGLE



TIME	0210	0250	0330	0410	0450	0530	0610	0650	0000	0000	0000	DEGS
RE	2.9	3.8	4.3	4.6	4.6	4.4	3.9	3.0	0.0	0.0	0.0	HHMM
L	3.0	4.1	6.0	9.0	14.8	30.9	100.0	90.0	0.0	0.0	0.0	RE
MLT	1.8	2.1	2.4	2.5	2.7	2.9	3.3	14.3	0.0	0.0	0.0	HRS
MLAT	-3.97	17.91	32.98	45.51	57.15	69.05	82.70	77.98	0.00	0.00	0.00	DEGS
INVLAT	54.7	60.6	65.9	70.5	74.9	79.6	85.6	83.9	0.0	0.0	0.0	

DE RINS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Mon Sep 6 15:46:34 1993

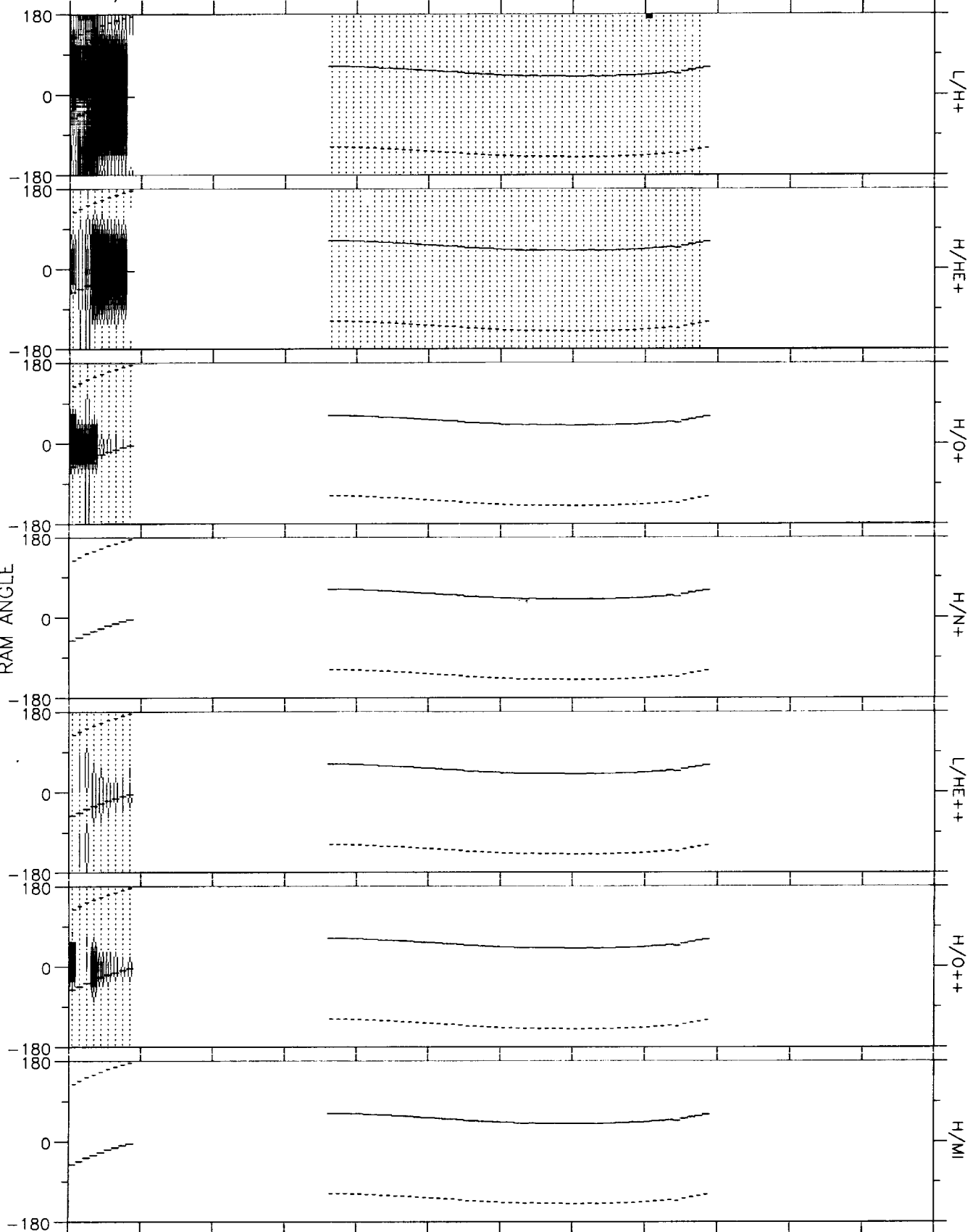
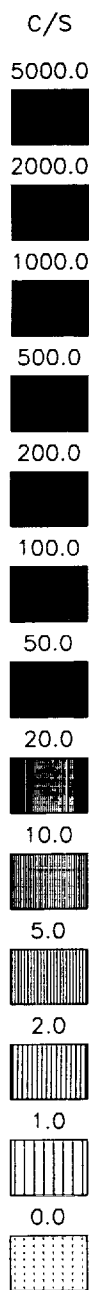
82/027 27-JAN 0830:00 - 1630:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0910	0950	1030	1110	1150	1230	1310	1350	1430	1510	0000	DEGS
RE	3.1	3.9	4.4	4.6	4.6	4.3	3.7	2.8	1.5	1.5	0.0	HHMM
L	3.2	4.7	6.6	8.9	12.1	18.0	38.0	77.4	1.9	10.0	0.0	RE
MLT	2.3	2.2	1.9	1.7	1.4	0.9	23.9	19.0	14.6	3.5	0.0	HRS
MLAT	7.42	24.03	35.05	43.83	51.91	60.48	70.81	78.33	34.49	****	0.00	DEGS
INVLAT	56.0	62.6	67.1	70.4	73.3	76.4	80.7	83.5	44.2	71.5	0.0	

DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Mon Sep 6 15:49:06 1993

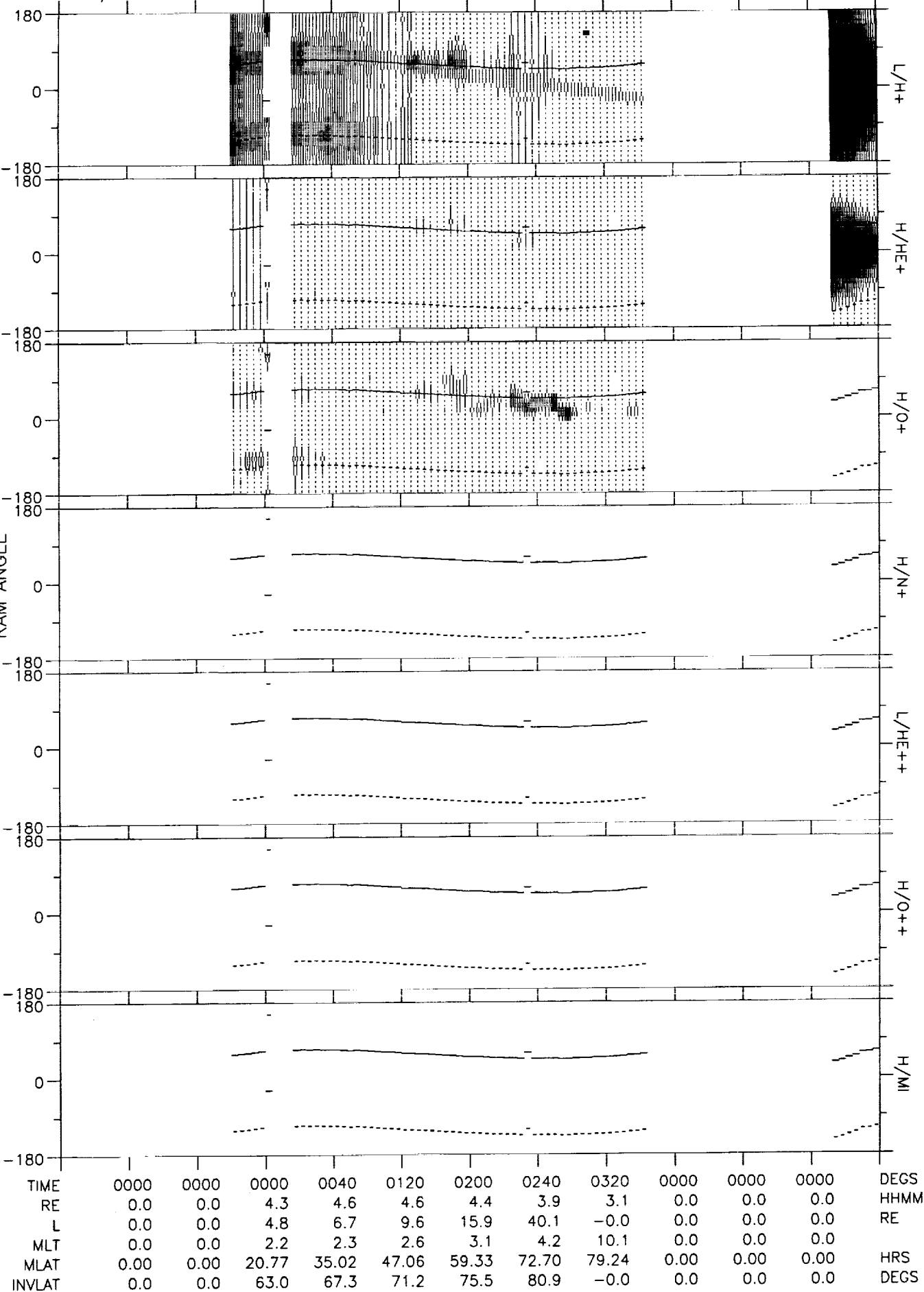
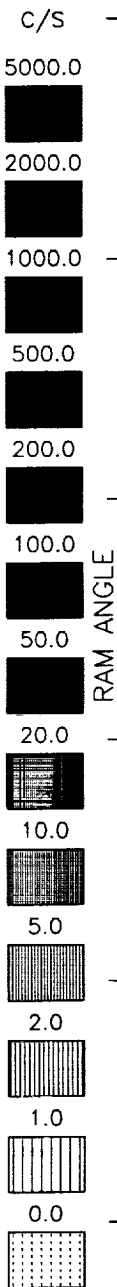
82/027 27-JAN 1515:00 - 2315:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	1755	1835	1915	1955	2035	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	4.6	4.6	4.4	3.8	3.0	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	5.9	7.4	10.3	18.5	100.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	1.9	1.9	2.1	2.4	4.1	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	26.93	37.08	48.16	61.71	80.72	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	65.6	68.5	71.8	76.6	85.5	0.0	0.0	0.0	DEGS

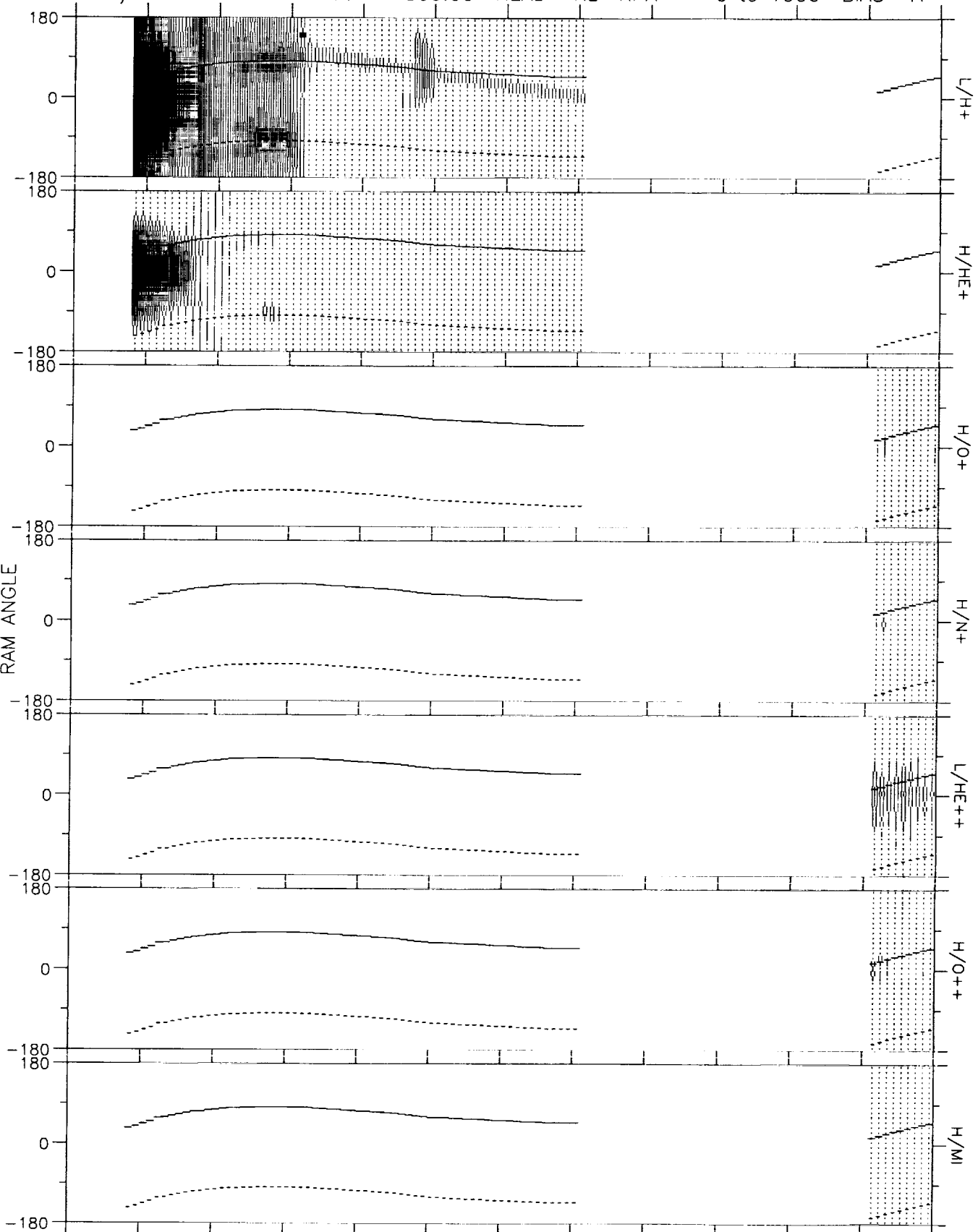
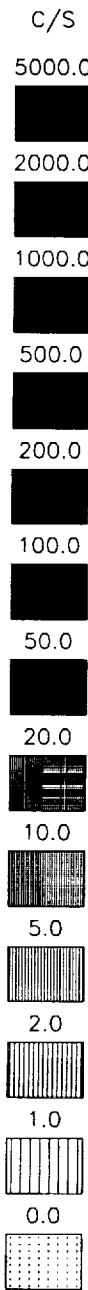
DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Mon Sep 6 16:28:46 1993

82/027 27-JAN 2200:00 - 0600:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Mon Sep 6 16:34:02 1993

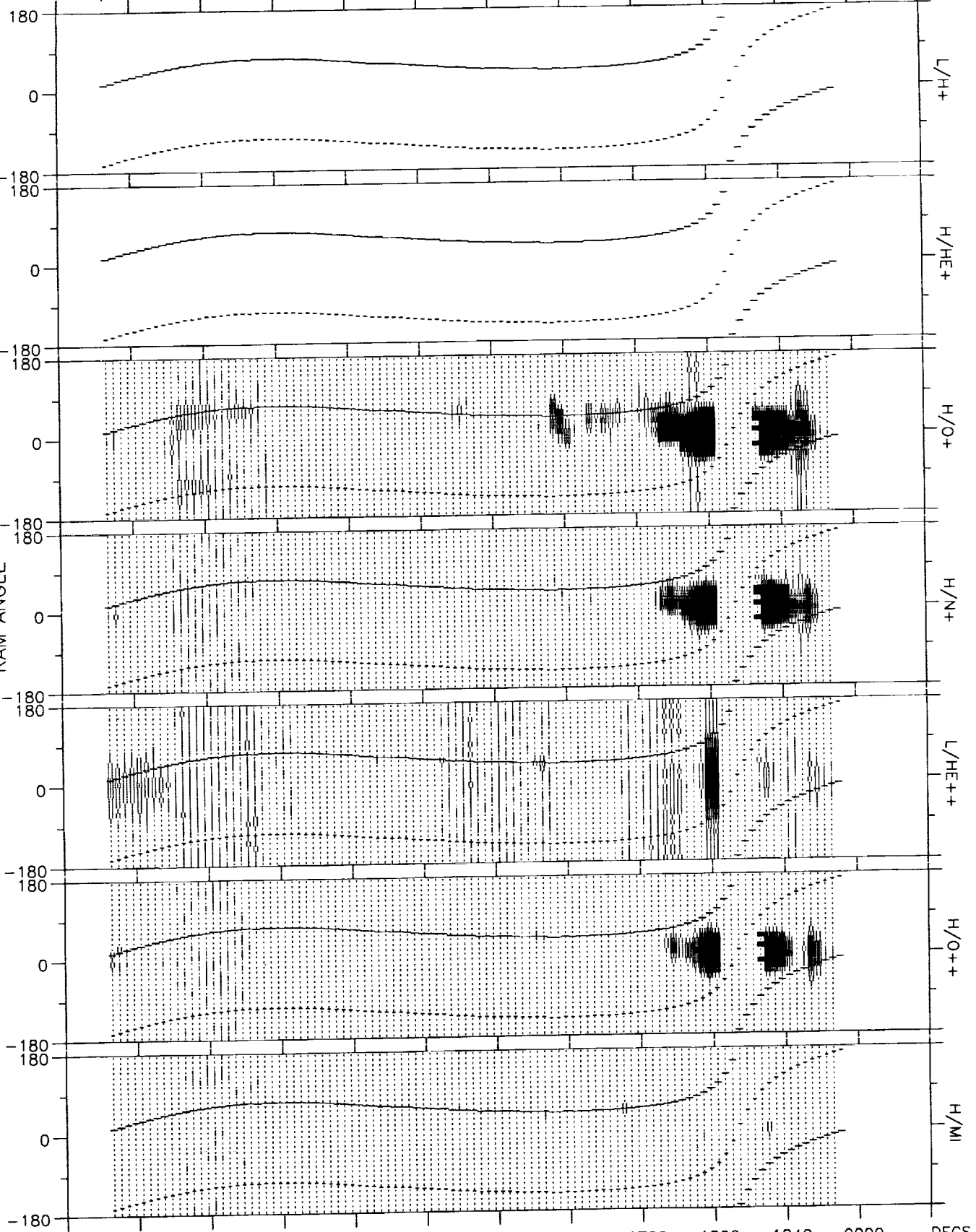
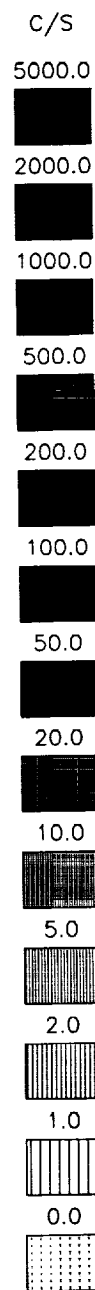
82/028 28-JAN 0500:00 - 1300:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0540	0620	0700	0740	0820	0900	0940	0000	0000	0000	0000	DEGS
RE	3.1	3.9	4.4	4.6	4.6	4.3	3.8	0.0	0.0	0.0	0.0	HHMM
L	3.2	4.9	7.4	11.1	17.8	34.1	100.0	0.0	0.0	0.0	0.0	RE
MLT	2.1	2.2	2.2	2.1	1.8	1.2	23.4	0.0	0.0	0.0	0.0	
MLAT	7.12	26.19	39.24	49.86	59.52	69.20	79.02	0.00	0.00	0.00	0.00	HRS
INVLAT	55.9	63.1	68.4	72.6	76.3	80.1	84.6	0.0	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Mon Sep 6 16:35:36 1993

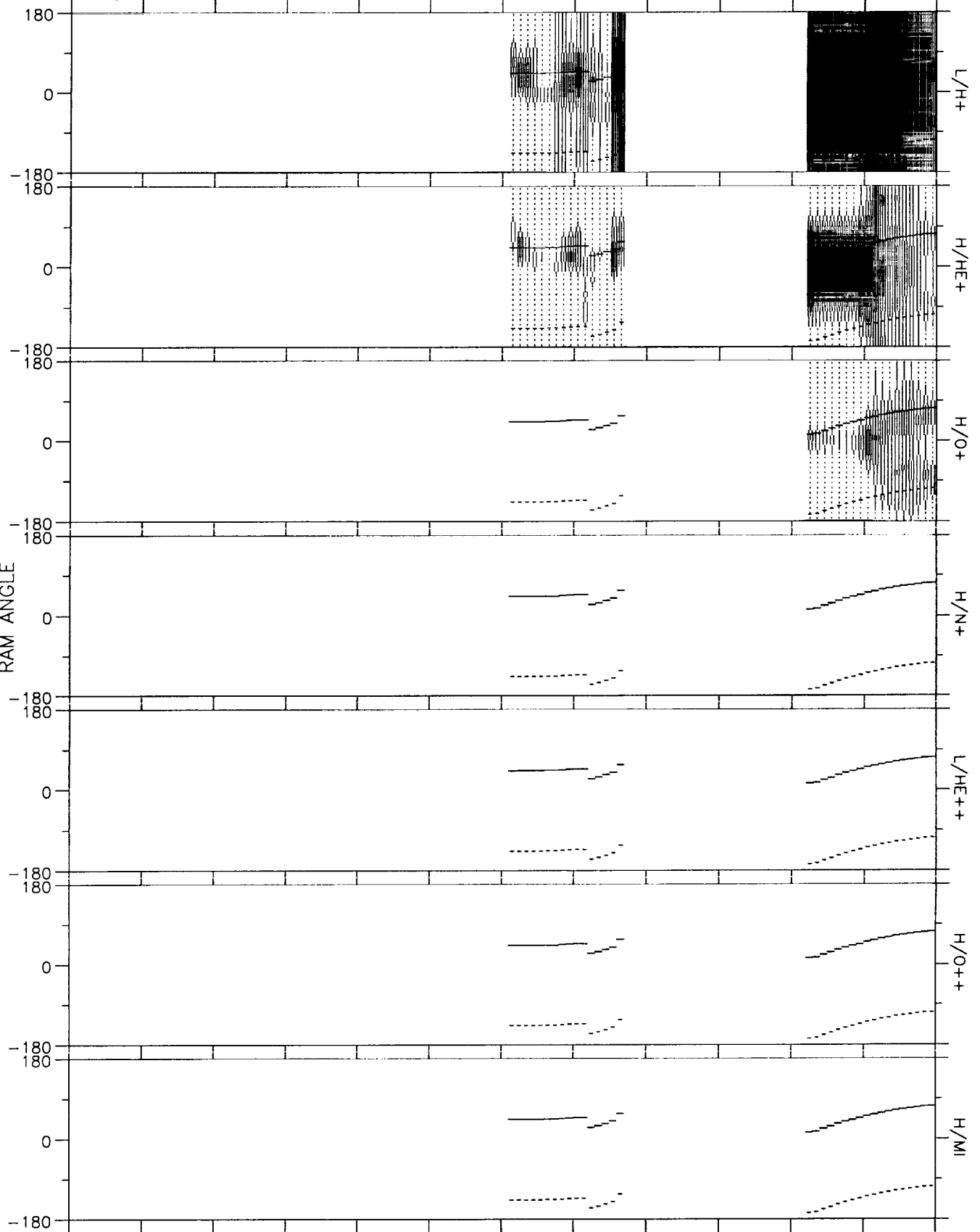
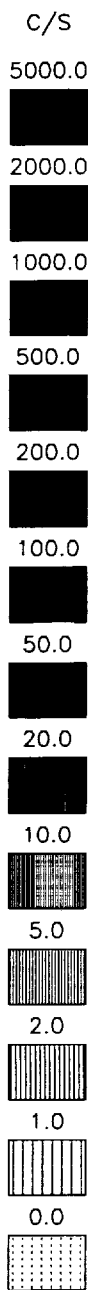
82/028 28-JAN 1200:00 - 2000:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1240	1320	1400	1440	1520	1600	1640	1720	1800	1840	0000	DEGS
RE	3.3	4.0	4.5	4.7	4.6	4.2	3.6	2.6	1.3	1.8	0.0	HHMM
L	3.2	4.3	5.5	6.9	8.9	12.7	27.1	-0.0	1.5	6.5	0.0	RE
MLT	2.2	1.9	1.8	1.6	1.5	1.3	1.0	19.4	14.0	1.9	0.0	HRS
MLAT	1.71	16.15	26.34	35.07	43.79	53.86	67.30	85.65	21.97	*****	0.00	DEGS
INVLAT	56.3	61.2	64.8	67.7	70.4	73.7	78.9	-0.0	36.5	66.8	0.0	

DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Mon Sep 6 16:37:41 1993

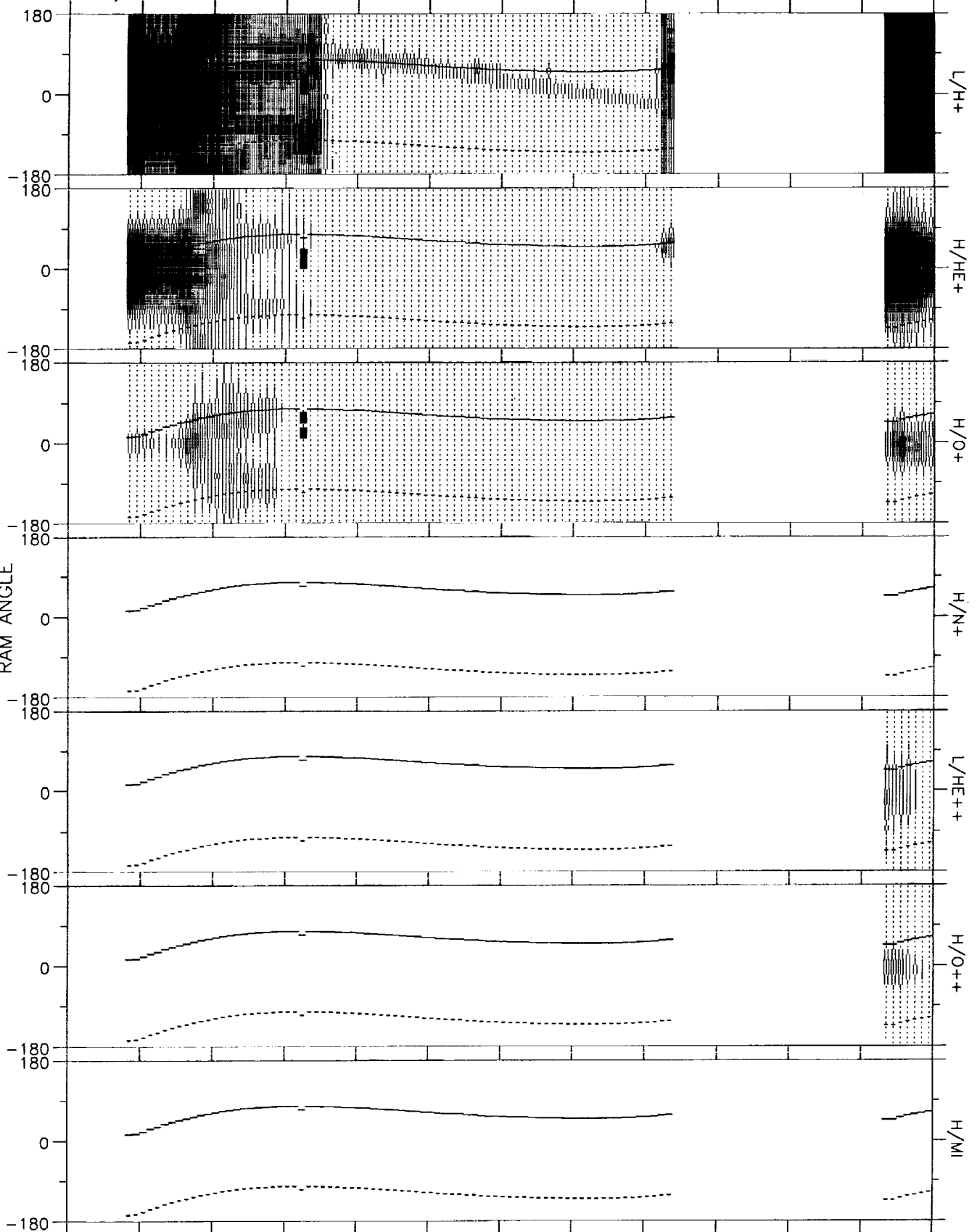
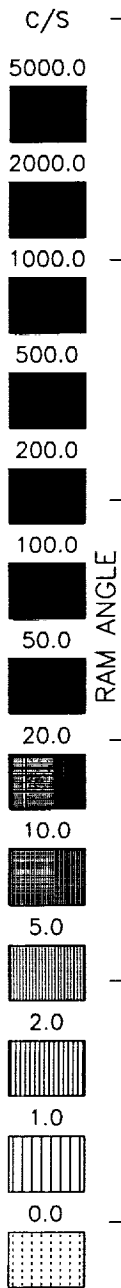
82/028 28-JAN 1915:00 - 0315:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	0000	2355	0000	0000	0000	0235	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	3.6	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	3.8	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	1.9	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	78.57	0.00	0.00	0.00	12.57	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	84.3	0.0	0.0	0.0	58.9	DEGS

DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Mon Sep 6 16:40:20 1993

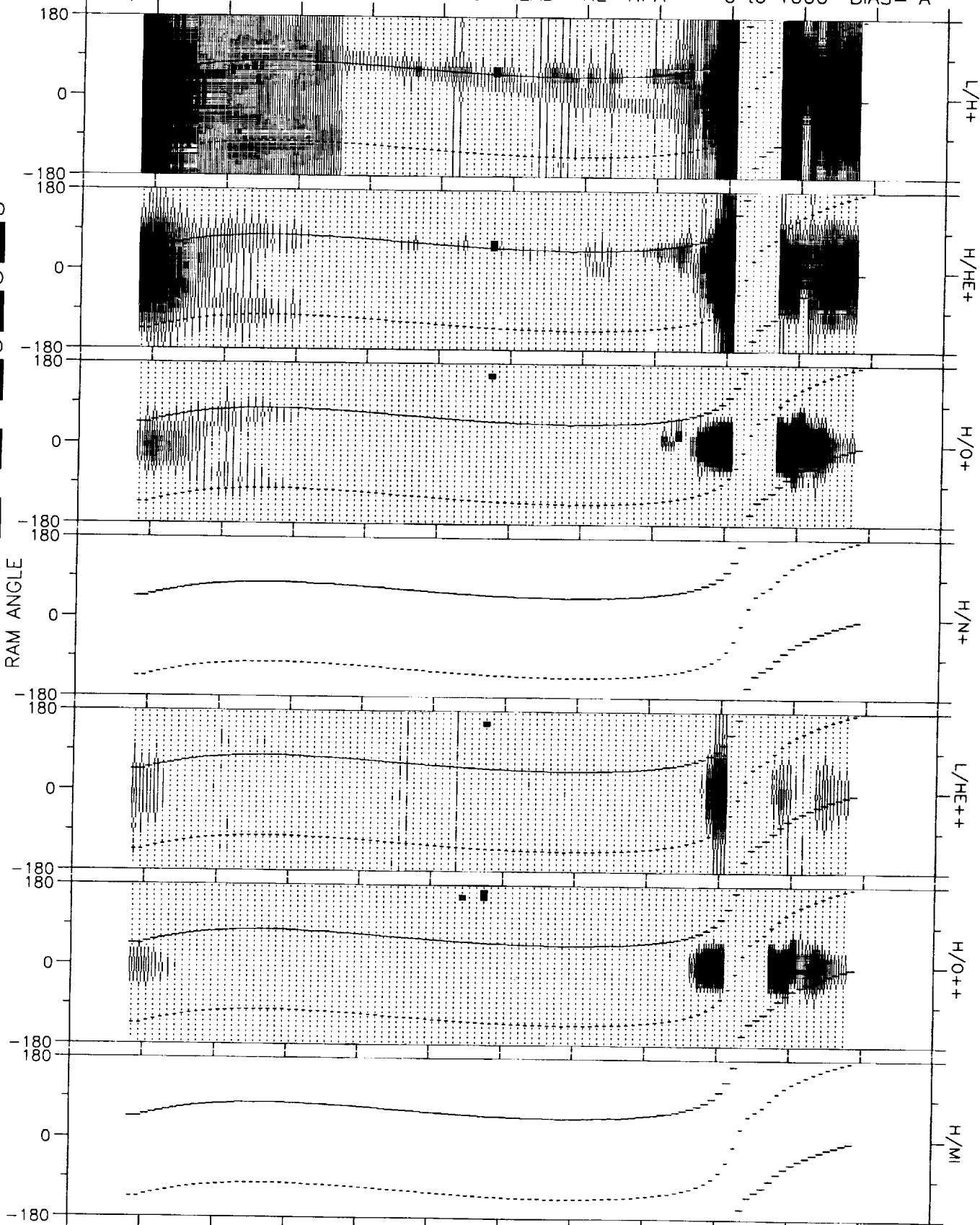
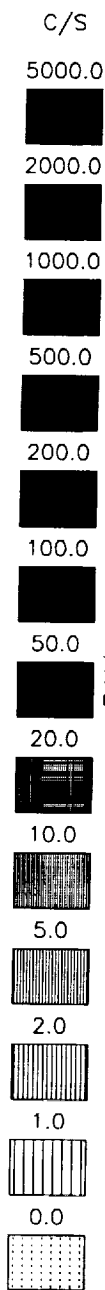
82/029 29-JAN 0130:00 - 0930:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0210	0250	0330	0410	0450	0530	0610	0650	0000	0000	0000	DEGS
RE	3.0	3.9	4.4	4.6	4.6	4.4	3.8	2.9	0.0	0.0	0.0	HHMM
L	3.1	4.3	6.2	9.3	15.3	32.9	100.0	61.3	0.0	0.0	0.0	RE
MLT	1.7	2.0	2.2	2.4	2.5	2.7	3.2	14.2	0.0	0.0	0.0	
MLAT	-1.34	19.29	33.95	46.28	57.85	69.87	83.85	75.85	0.00	0.00	0.00	HRS
INVLAT	55.3	61.1	66.3	70.8	75.2	80.0	86.2	82.7	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Mon Sep 6 16:42:23 1993

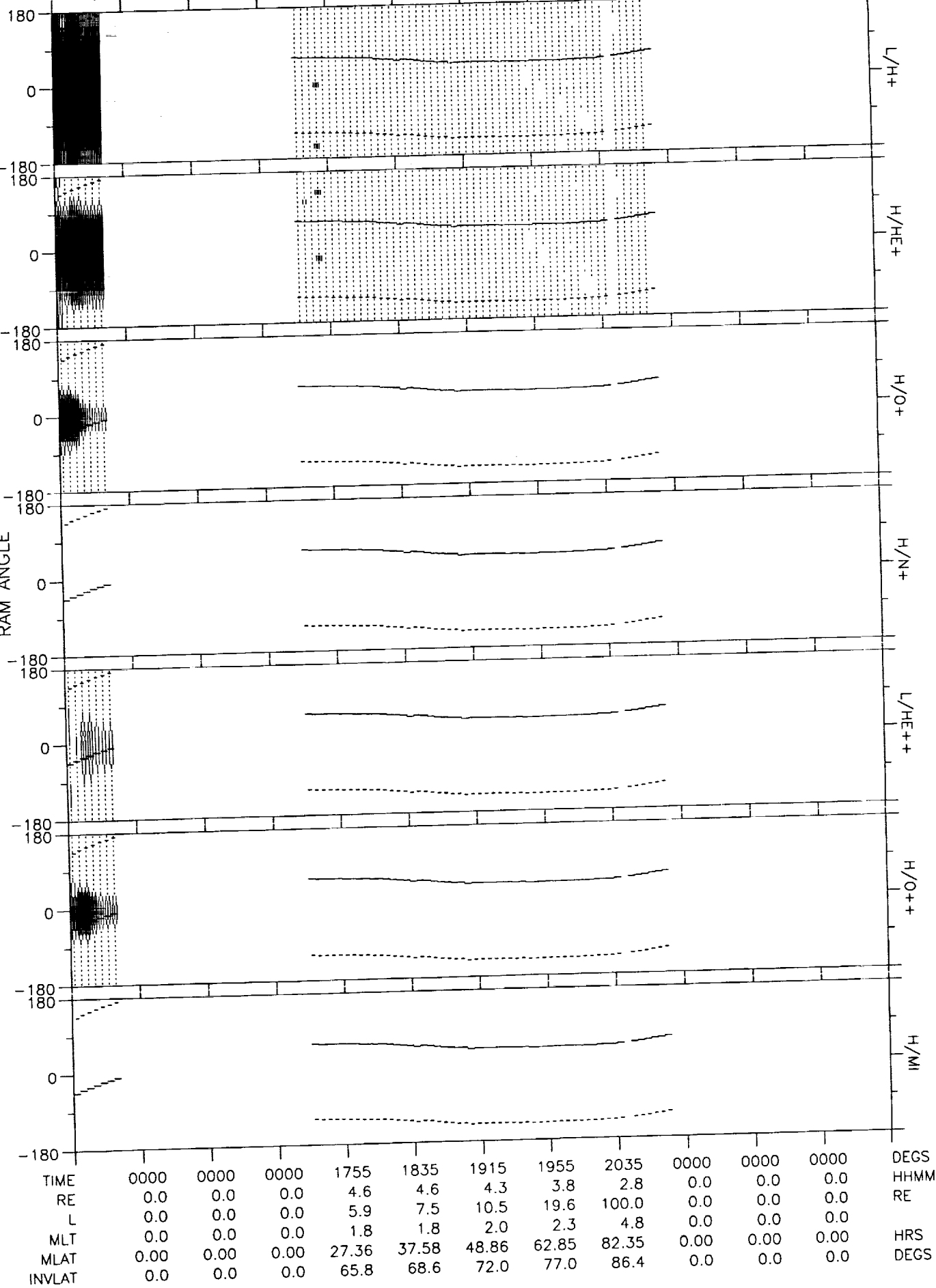
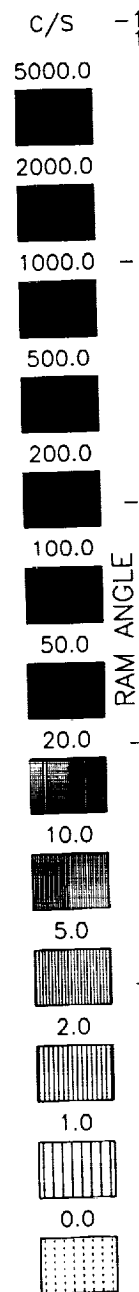
82/029 29-JAN 0830:00 - 1630:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0910	0950	1030	1110	1150	1230	1310	1350	1430	1510	0000	DEGS
RE	3.2	4.0	4.5	4.7	4.6	4.3	3.6	2.7	1.4	1.7	0.0	HHMM
L	3.3	4.8	6.7	8.9	12.1	18.1	40.1	59.8	1.5	6.2	0.0	RE
MLT	2.2	2.0	1.8	1.5	1.2	0.7	23.7	18.2	14.3	2.9	0.0	
MLAT	9.00	24.66	35.30	43.93	52.01	60.74	71.44	77.52	23.39	*****	0.00	HRS
INVLAT	56.8	63.0	67.2	70.4	73.3	76.4	80.9	82.6	34.1	66.3	0.0	DEGS

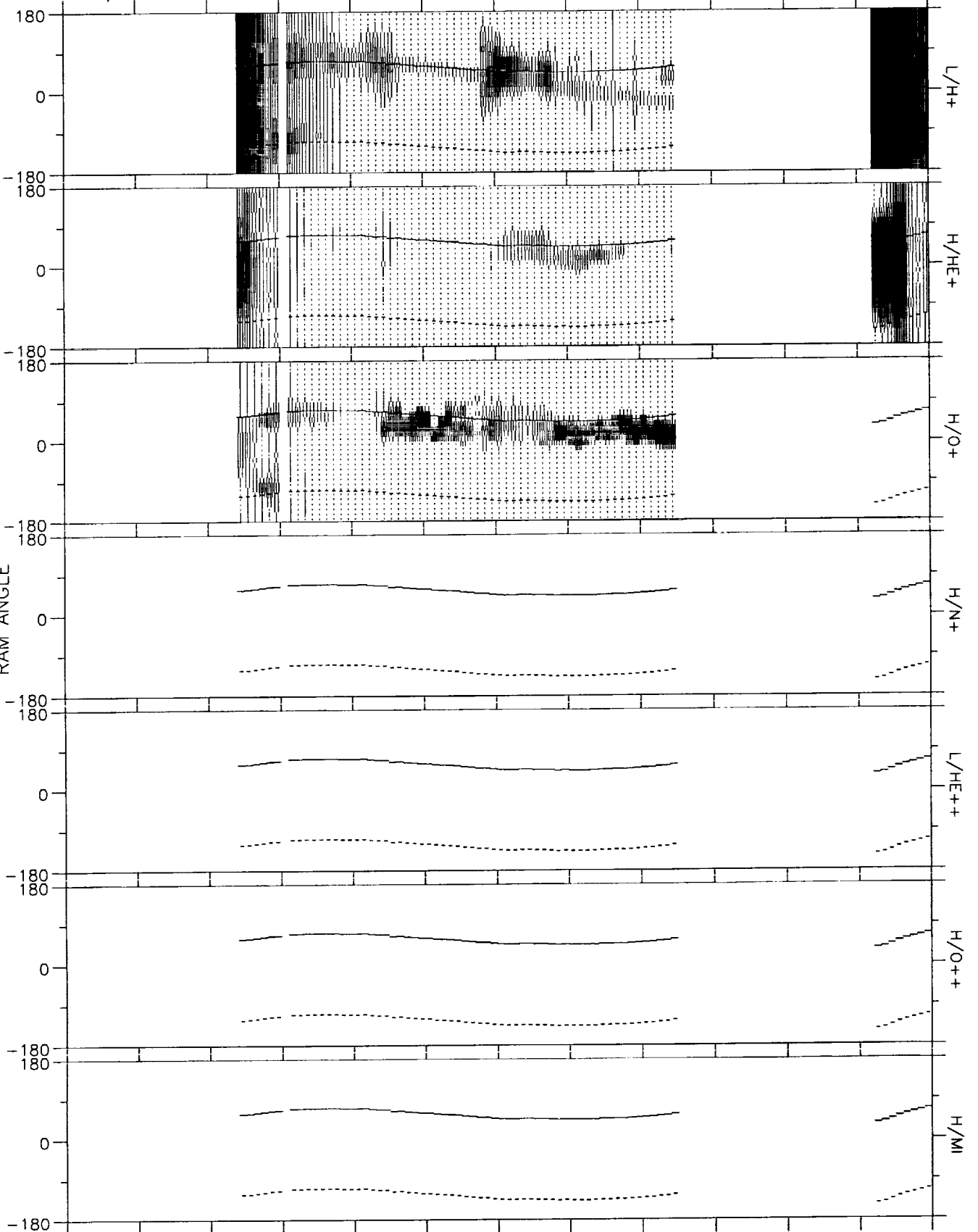
DE RMS SPIN SUMMARY
SPINRADIAL.ALL (V1.0)
Mon Sep 6 16:44:57 1993

82/029 29-JAN 1515:00 - 2315:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Mon Sep 6 16:46:24 1993

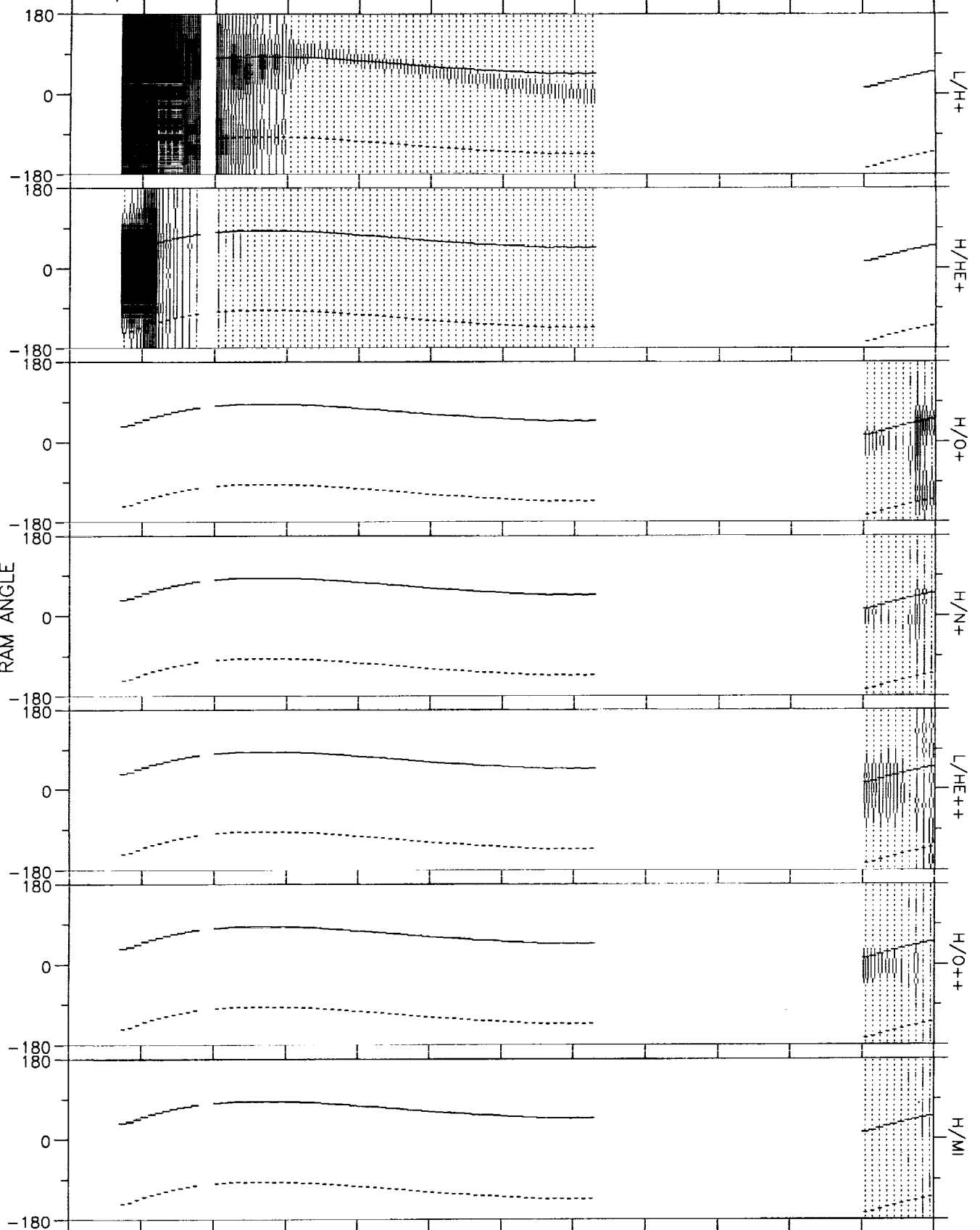
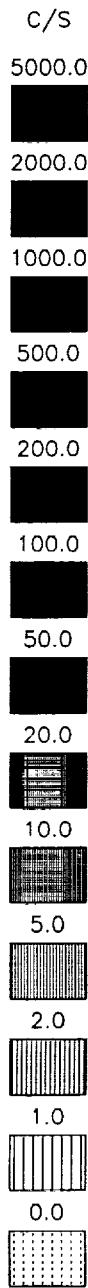
82/029 29-JAN 2200:00 - 0600:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0040	0120	0200	0240	0320	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	4.6	4.6	4.4	3.9	3.0	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	6.9	9.9	16.7	44.8	89.8	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	2.2	2.5	3.0	4.2	10.7	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	35.90	47.94	60.31	73.85	77.98	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	67.6	71.5	75.8	81.4	83.9	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Mon Sep 6 16:54:34 1993

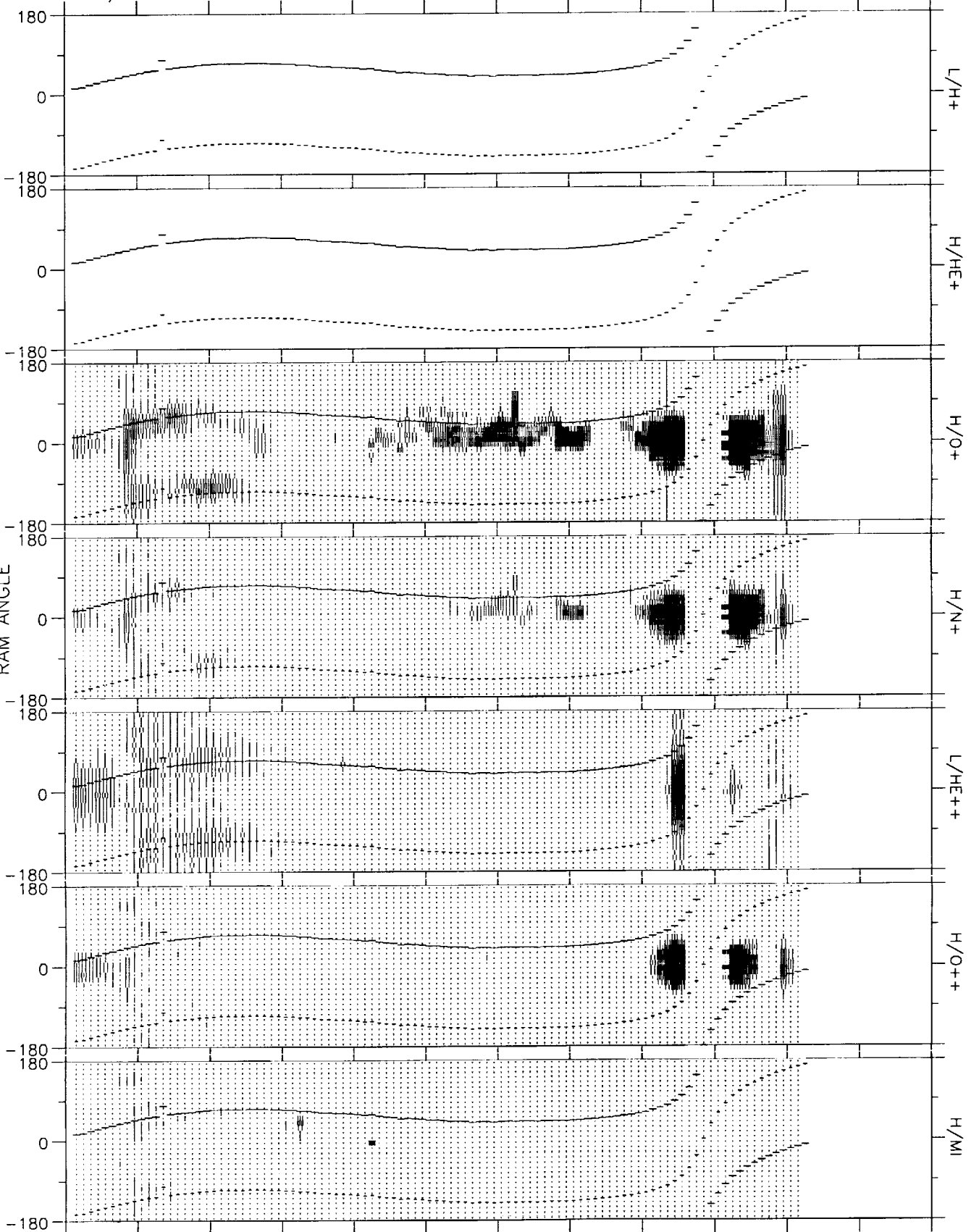
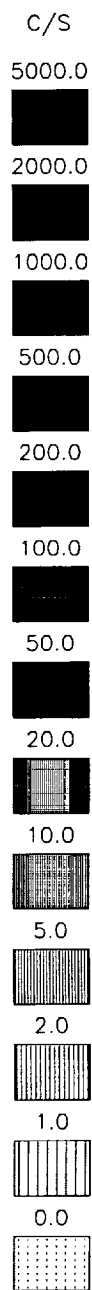
82/030 30-JAN 0500:00 - 1300:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0540	0620	0700	0740	0820	0900	0940	0000	0000	0000	1220	DEGS
RE	3.2	3.9	4.4	4.7	4.6	4.3	3.7	0.0	0.0	0.0	2.9	HHMM
L	3.3	4.9	7.6	11.4	18.1	34.8	100.0	0.0	0.0	0.0	2.9	RE
MLT	2.0	2.1	2.0	1.9	1.6	1.0	22.8	0.0	0.0	0.0	2.2	
MLAT	9.15	26.18	39.83	50.25	59.80	69.51	79.64	0.00	0.00	0.00	-7.30	HRS
INVLAT	56.7	63.2	68.7	72.8	76.4	80.2	84.9	0.0	0.0	0.0	54.2	DEGS

DE RIMS SPIN SUMMARY
SPINRADIAL.ALL (V1.0)
Mon Sep 6 16:56:11 1993

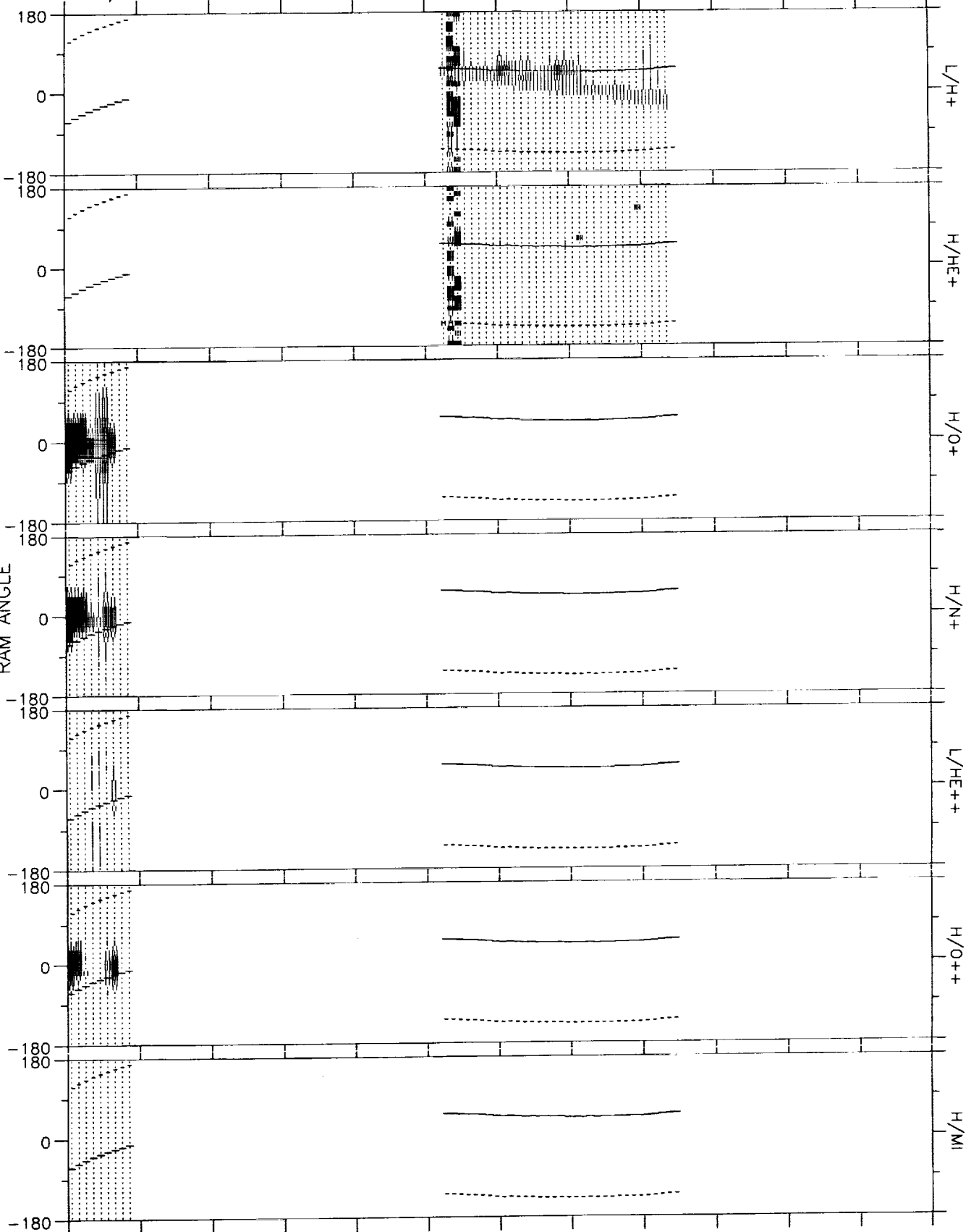
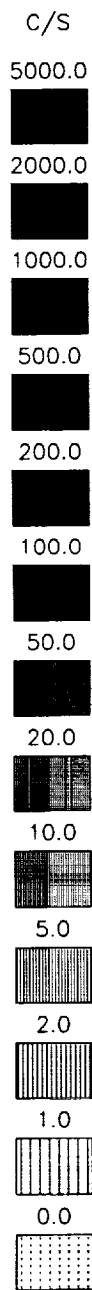
82/030 30-JAN 1215:00 - 2015:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1255	1335	1415	1455	1535	1615	1655	1735	1815	1855	0000	DEGS
RE	3.7	4.3	4.6	4.7	4.4	4.0	3.2	2.0	1.1	2.4	0.0	HHMM
L	3.7	4.8	6.1	7.6	10.0	16.0	62.6	12.8	4.6	3.3	0.0	RE
MLT	1.9	1.7	1.5	1.4	1.3	1.1	0.5	14.3	13.7	1.7	0.0	
MLAT	8.76	20.58	29.84	38.46	47.69	59.06	75.52	68.71	*****	*****	0.00	HRS
INVLAT	58.8	62.9	66.0	68.7	71.6	75.5	82.7	73.8	62.1	56.8	0.0	DEGS

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Mon Sep 6 16:58:21 1993

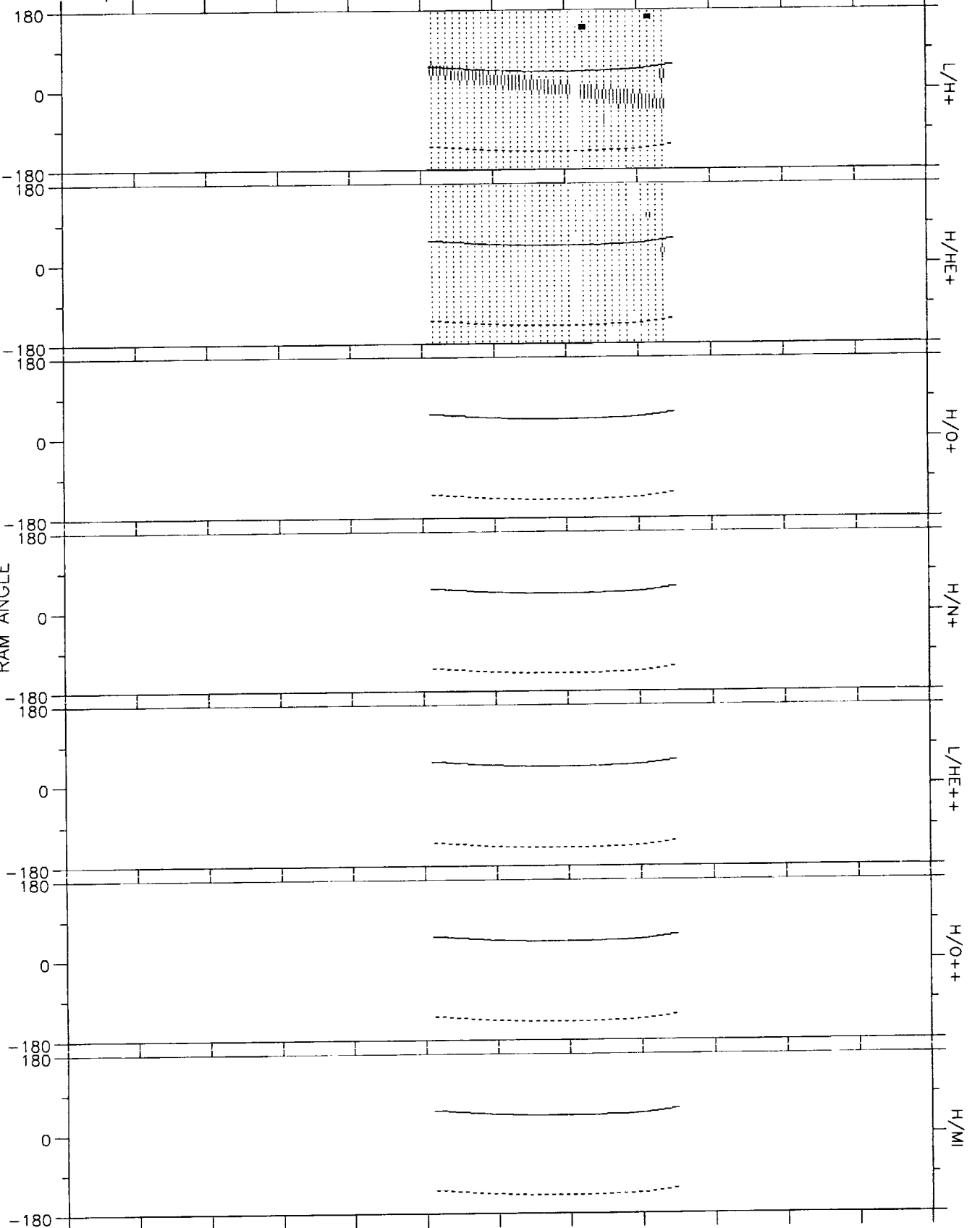
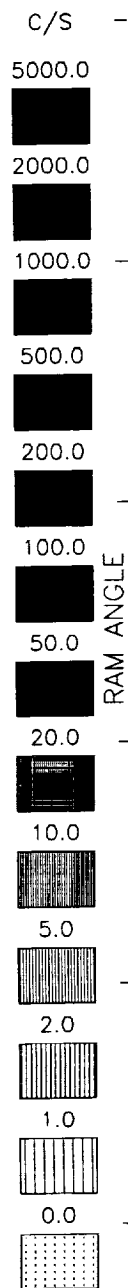
82/030 30-JAN 1830:00 - 0230:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	2230	2310	2350	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	4.4	3.9	3.1	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	10.9	20.6	95.3	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	2.5	3.2	6.5	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	50.19	63.88	78.31	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	72.4	77.3	84.1	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Mon Sep 6 16:59:41 1993

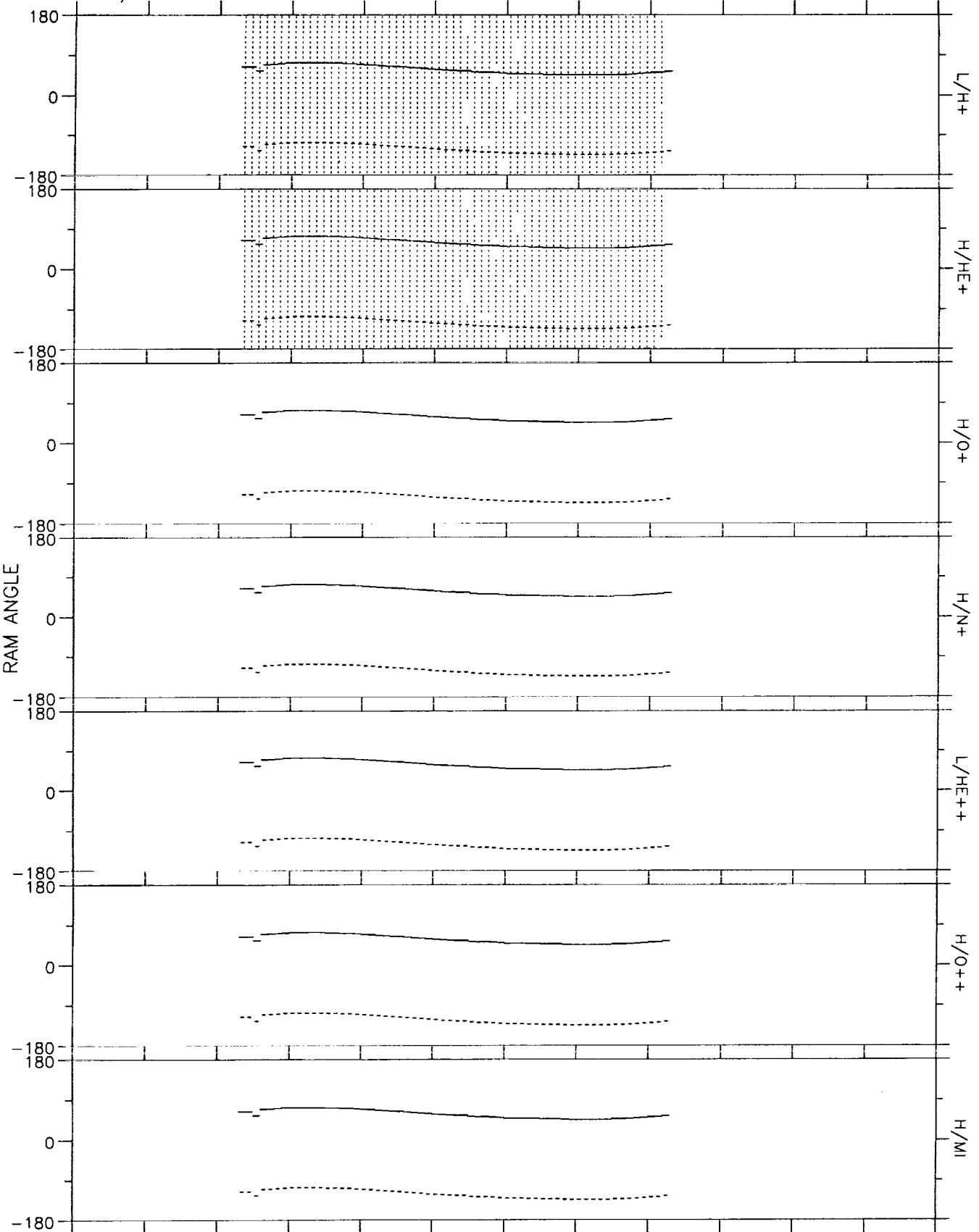
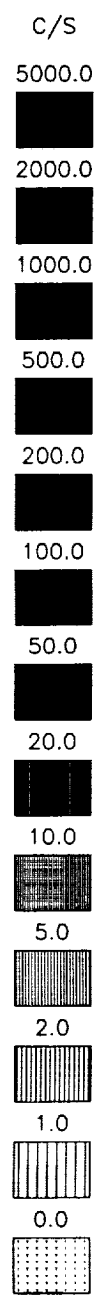
82/031 31-JAN 1515:00 - 2315:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	1915	1955	2035	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	4.3	3.7	2.7	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	10.7	21.0	100.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	1.9	2.2	6.1	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	49.56	64.04	83.79	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	72.2	77.4	87.2	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPINRADIALJALL (V1.0)
Mon Sep 6 17:00:54 1993

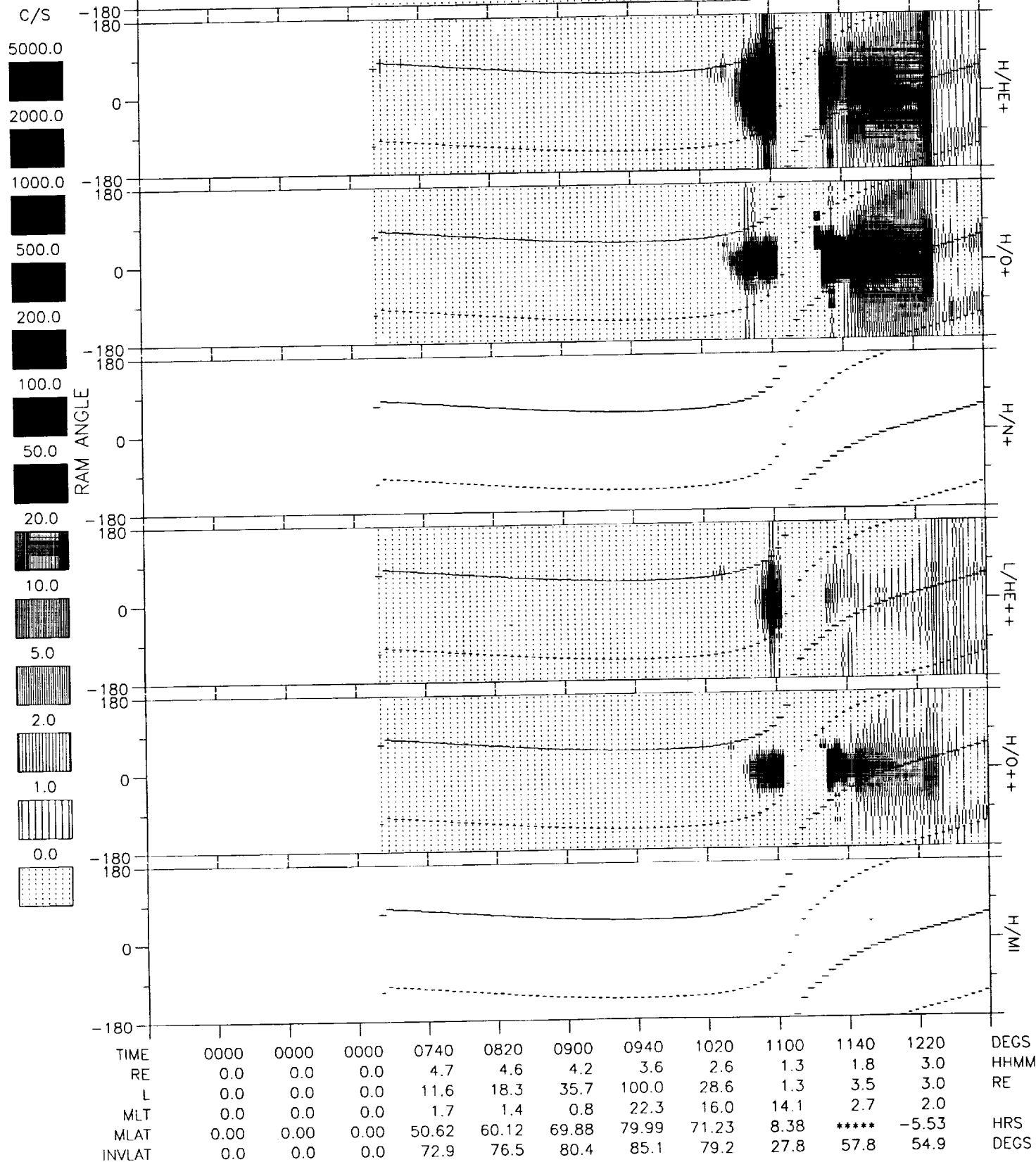
82/031 31-JAN 2200:00 - 0600:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0040	0120	0200	0240	0320	0000	0000	0000	DEGS
RE	0.0	0.0	4.4	4.6	4.6	4.3	3.8	2.9	0.0	0.0	0.0	HHMM
L	0.0	0.0	5.2	7.0	10.2	17.5	50.6	65.9	0.0	0.0	0.0	RE
MLT	0.0	0.0	1.9	2.1	2.4	2.9	4.3	11.1	0.0	0.0	0.0	
MLAT	0.00	0.00	24.19	36.78	48.81	61.29	75.03	76.34	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	64.1	67.9	71.7	76.2	81.9	82.9	0.0	0.0	0.0	DEGS

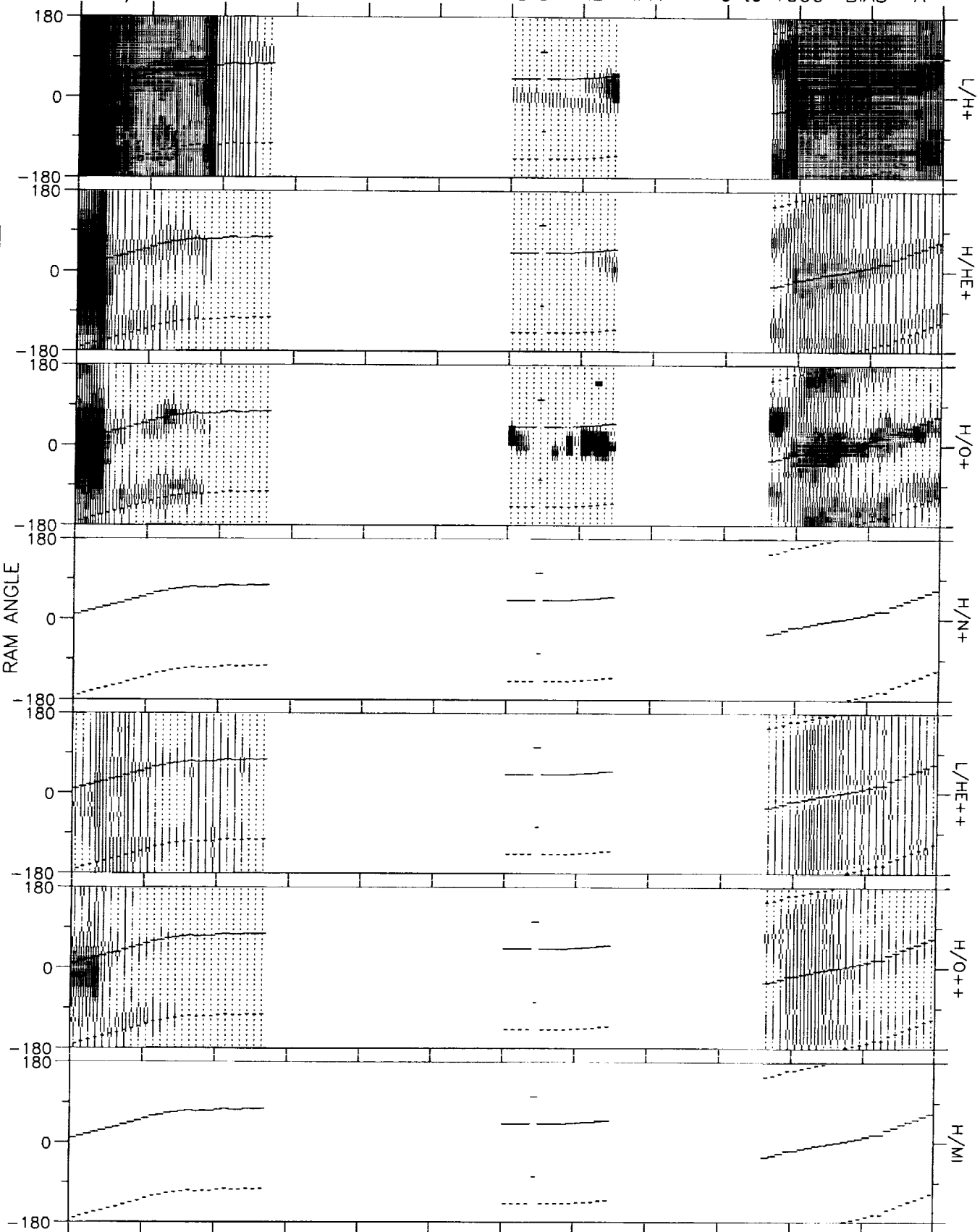
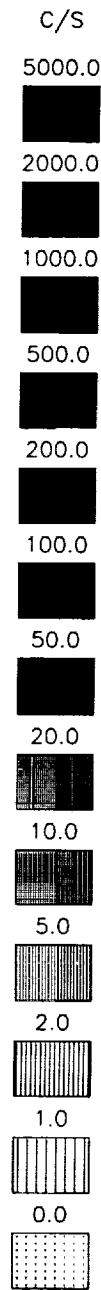
DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Mon Sep 6 17:09:07 1993

82/032 01-FEB 0500:00 - 1300:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Mon Sep 6 17:11:33 1993

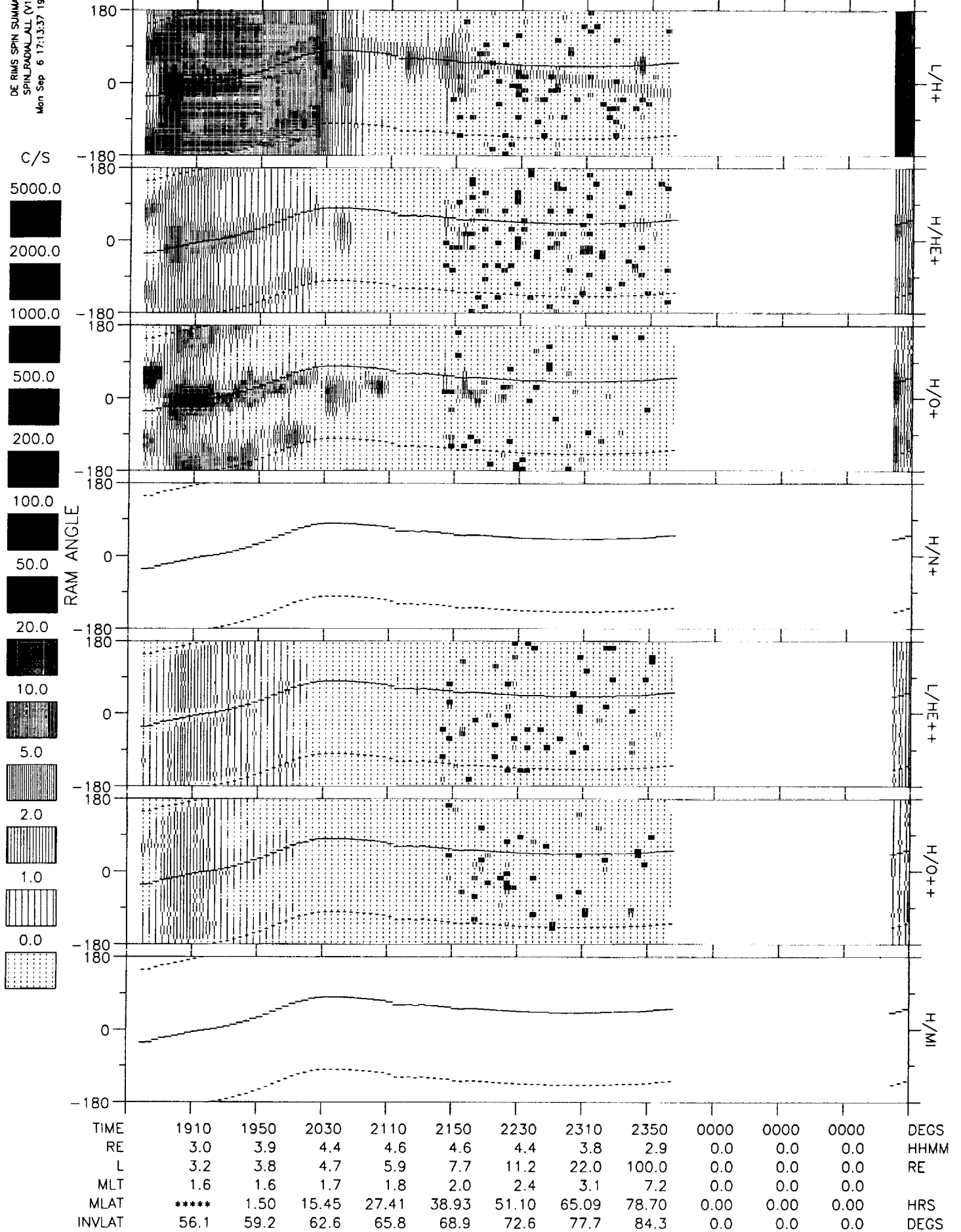
82/032 01-FEB 1215:00 - 2015:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1255	1335	0000	0000	0000	1615	1655	0000	0000	1855	1935	DEGS
RE	3.8	4.3	0.0	0.0	0.0	3.9	3.0	0.0	0.0	2.6	3.6	HHMM
L	3.8	4.9	0.0	0.0	0.0	16.5	81.3	0.0	0.0	3.3	3.5	RE
MLT	1.8	1.6	0.0	0.0	0.0	1.0	0.3	0.0	0.0	1.6	1.6	
MLAT	9.52	20.91	0.00	0.00	0.00	59.84	77.35	0.00	0.00	*****	-4.80	HRS
INVLAT	59.3	63.1	0.0	0.0	0.0	75.8	83.6	0.0	0.0	56.4	57.8	DEGS

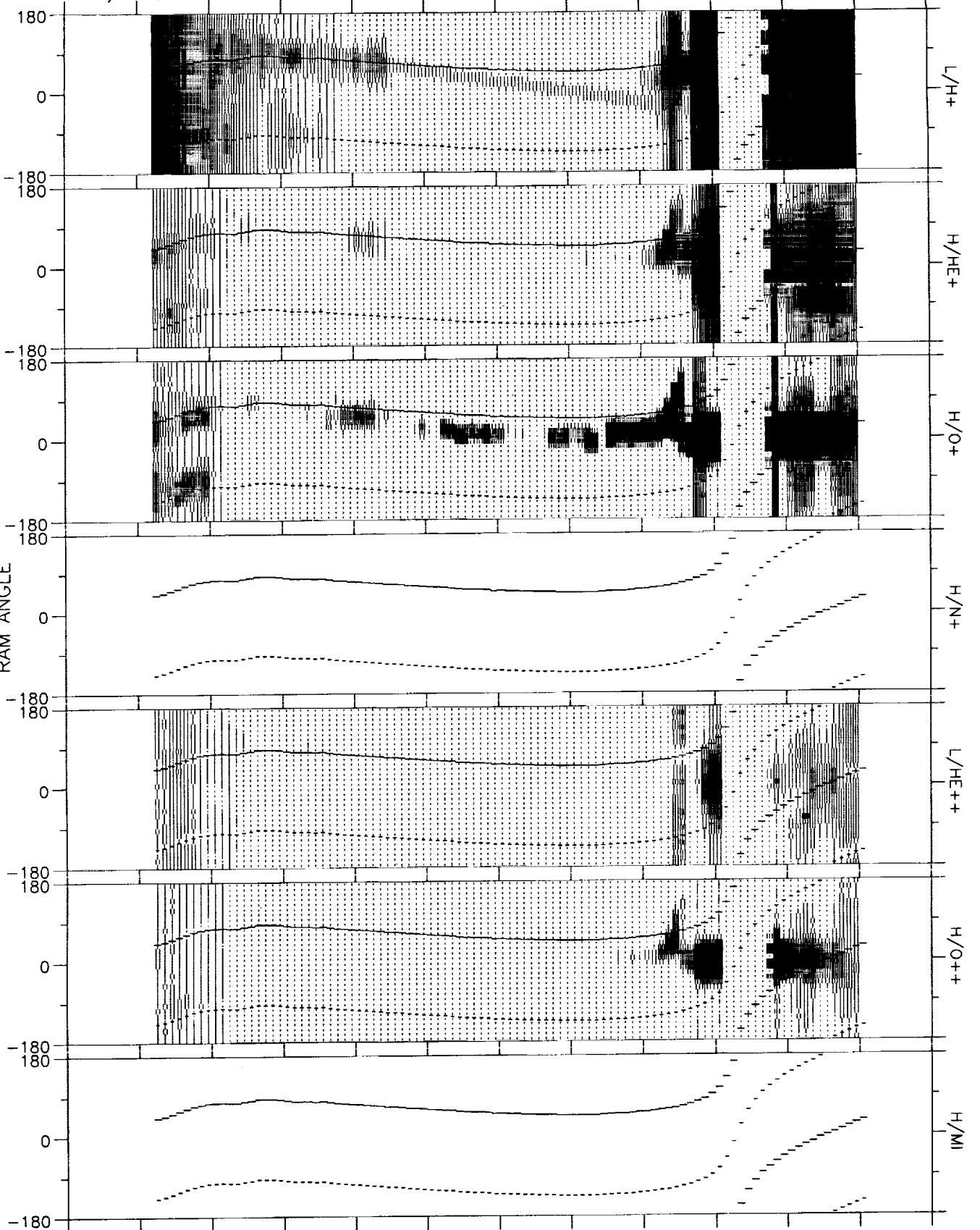
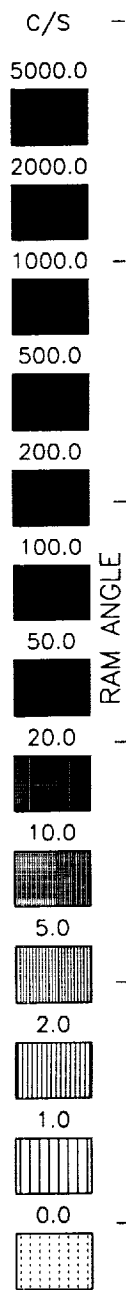
DE RIMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Mon Sep 6 17:13:37 1993

82/032 01-FEB 1830:00 - 0230:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Mon Sep 6 17:15:48 1993

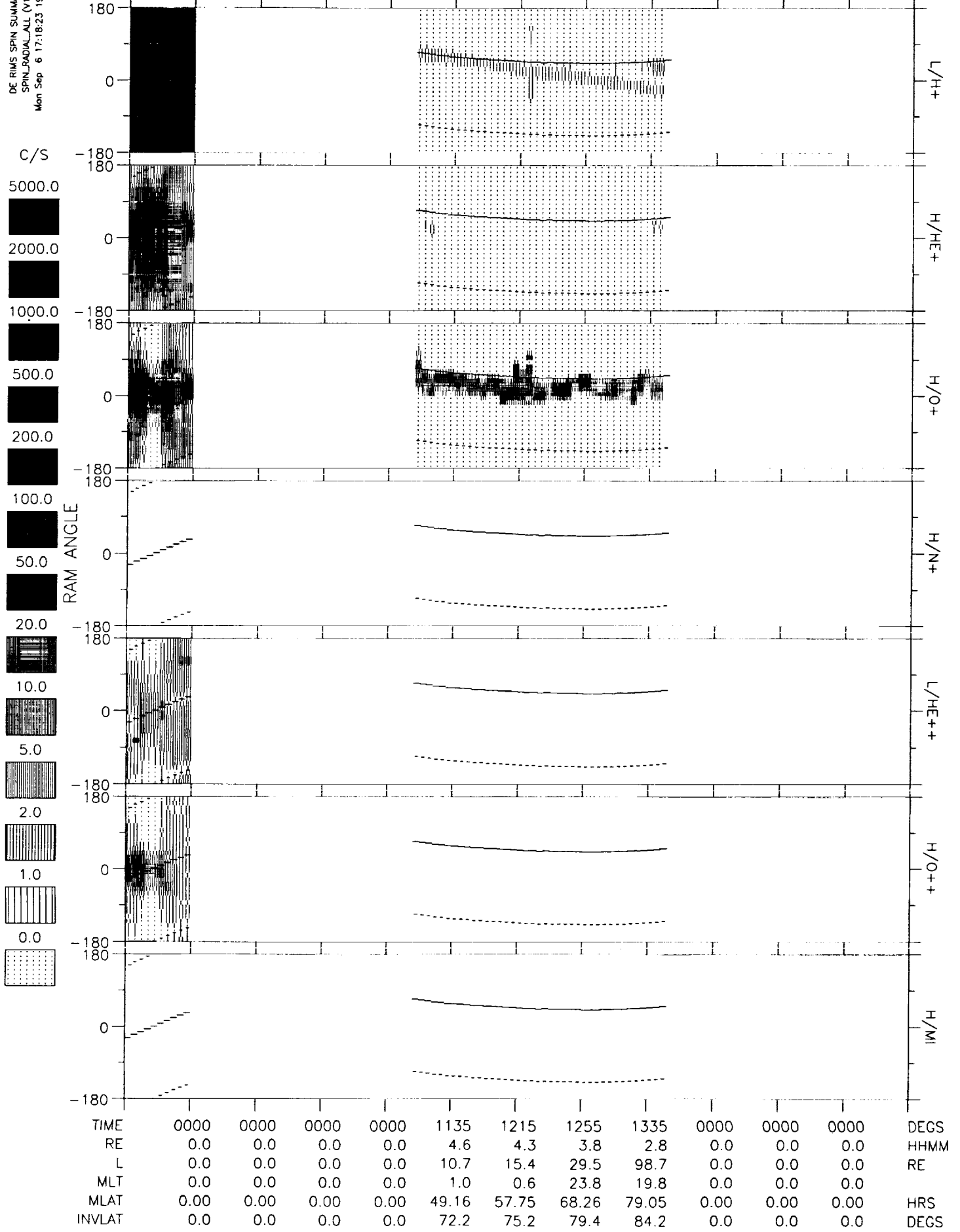
82/033 02-FEB 0130:00 - 0930:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0250	0330	0410	0450	0530	0610	0650	0730	0810	0850	DEGS
RE	0.0	4.0	4.5	4.7	4.6	4.3	3.6	2.7	1.4	1.7	2.9	HHMM
L	0.0	4.6	6.6	9.9	16.5	37.8	100.0	29.9	1.4	3.0	2.9	RE
MLT	0.0	1.8	2.0	2.1	2.2	2.3	2.8	14.1	14.0	2.2	2.0	HRS
MLAT	0.00	21.85	35.77	47.81	59.33	71.55	86.31	70.87	9.90	*****	0.55	DEGS
INVLAT	0.0	62.2	67.1	71.4	75.8	80.6	87.3	79.4	30.5	54.4	54.3	

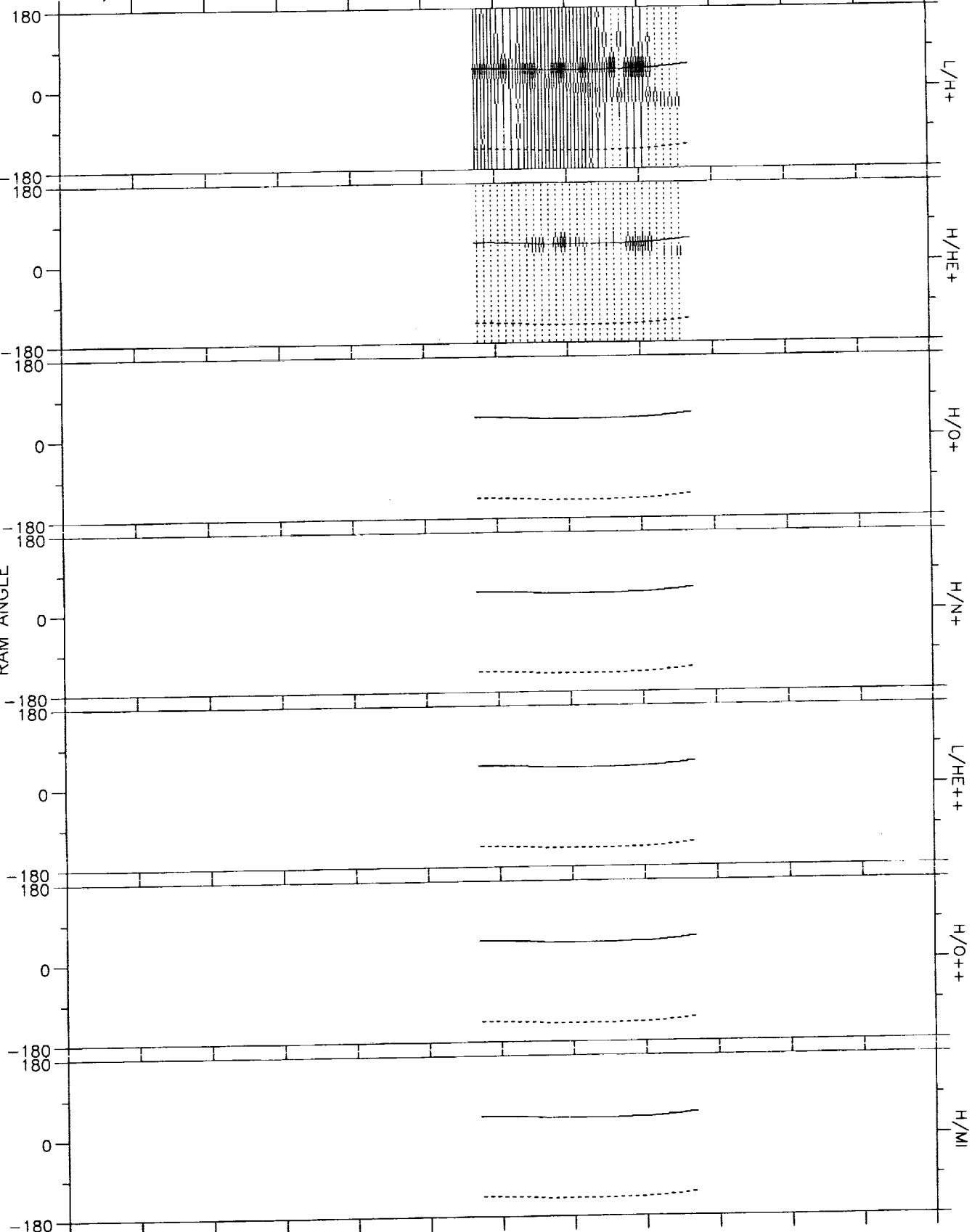
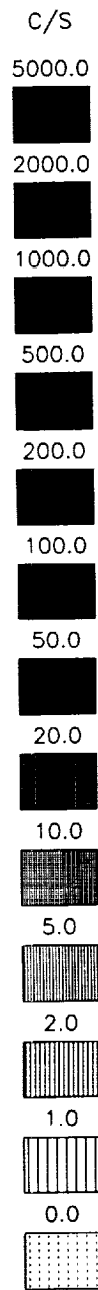
DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Mon Sep 6 17:18:23 1993

82/033 02-FEB 0815:00 - 1615:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN_RADIALALL (V1.0)
Mon Sep 6 17:20:03 1993

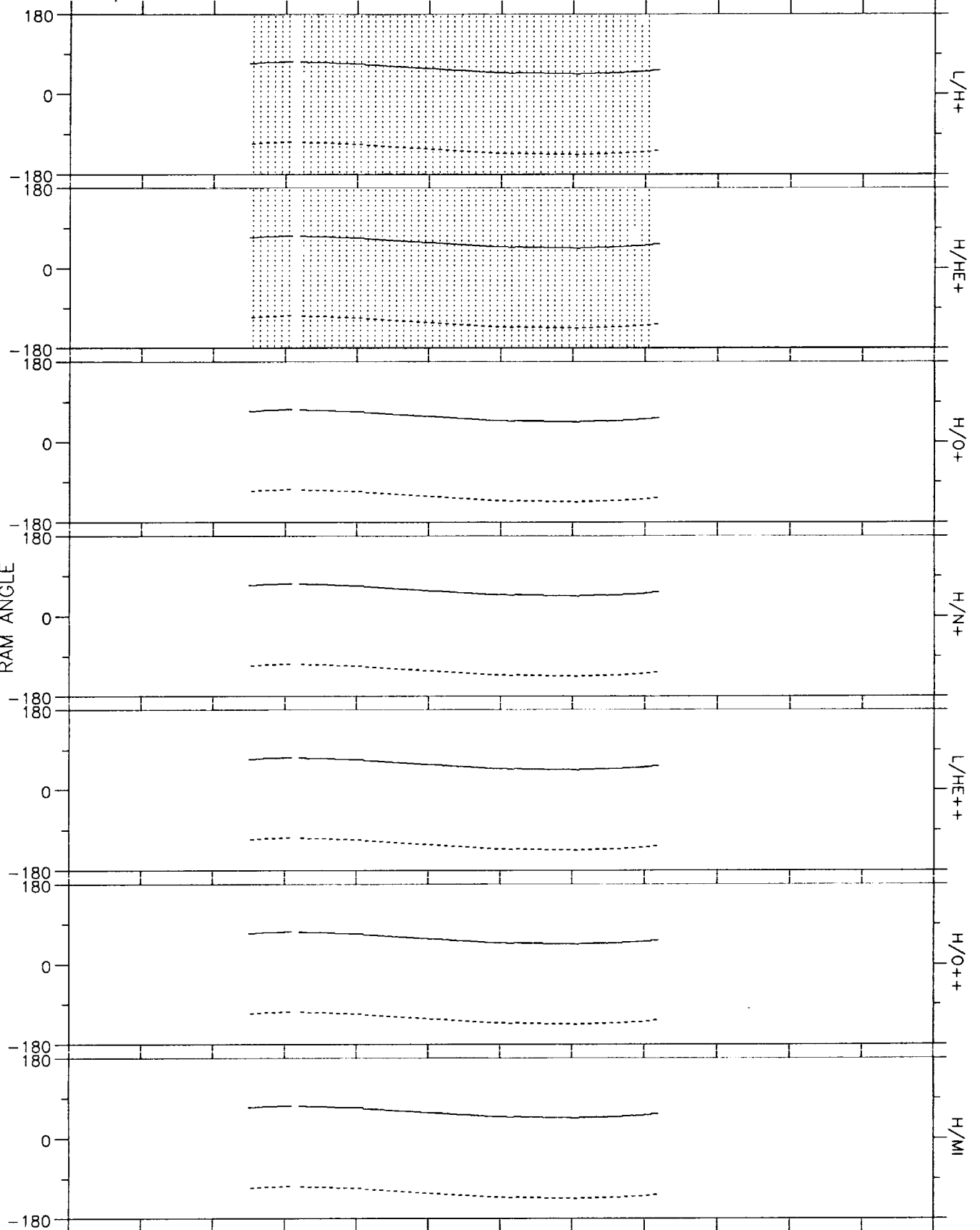
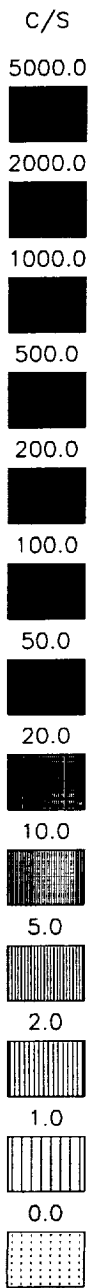
82/033 02-FEB 1500:00 - 2300:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	1900	1940	2020	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	4.4	3.9	3.0	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	9.4	15.8	89.9	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	1.7	2.0	3.3	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	45.69	59.15	78.01	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	70.9	75.4	83.9	0.0	0.0	0.0	

DE RIMS SPIN SUMMARY
SPIN/RADIALALL (V1.0)
Mon Sep 6 17:21:15 1993

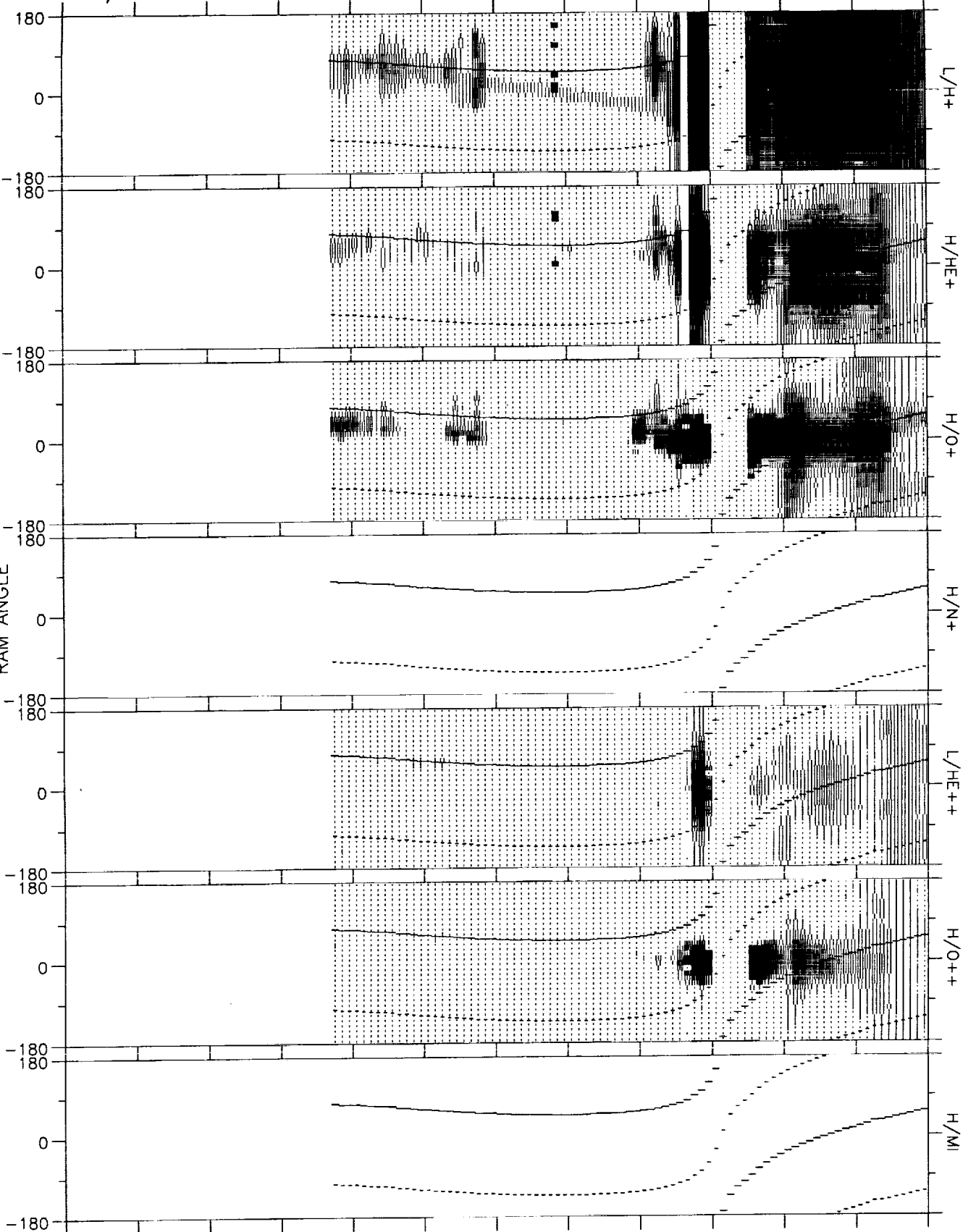
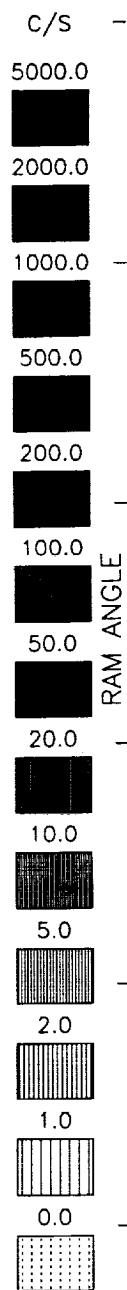
82/033 02-FEB 2200:00 - 0600:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0040	0120	0200	0240	0320	0000	0000	0000	DEGS
RE	0.0	0.0	4.4	4.7	4.6	4.3	3.7	2.7	0.0	0.0	0.0	HHMM
L	0.0	0.0	5.3	7.2	10.5	18.4	58.3	46.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	1.8	2.0	2.3	2.8	4.4	11.4	0.0	0.0	0.0	
MLAT	0.00	0.00	24.89	37.65	49.70	62.34	76.27	74.17	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	64.3	68.1	72.0	76.5	82.5	81.5	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Mon Sep 6 17:30:05 1993

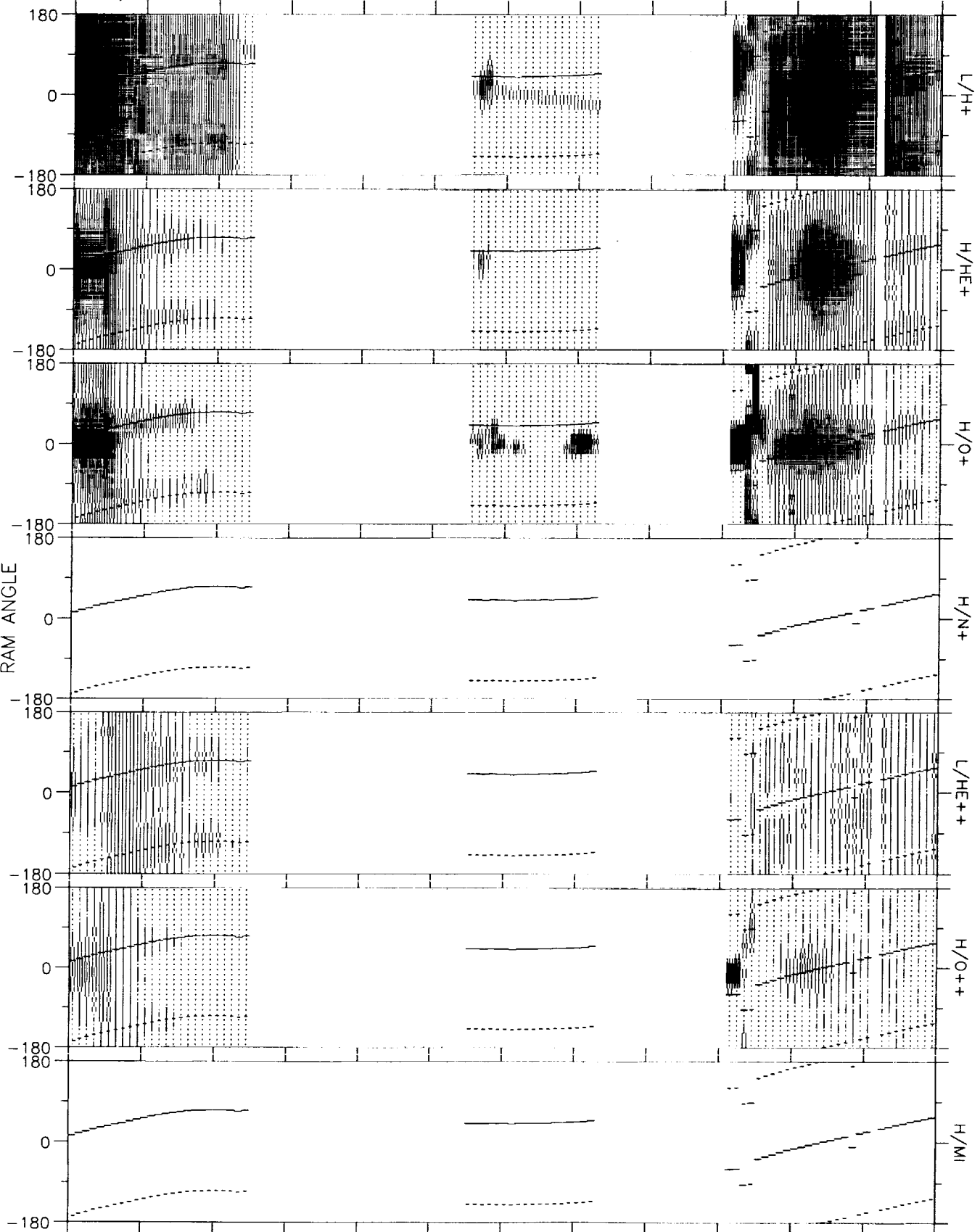
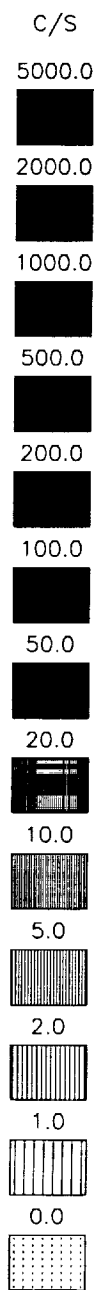
82/034 03-FEB 0500:00 - 1300:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0740	0820	0900	0940	1020	1100	1140	1220	DEGS
RE	0.0	0.0	0.0	4.7	4.6	4.2	3.5	2.5	1.2	1.9	3.1	HHMM
L	0.0	0.0	0.0	11.8	18.6	36.7	100.0	20.5	1.2	3.2	3.1	RE
MLT	0.0	0.0	0.0	1.5	1.2	0.5	21.8	15.7	13.8	2.4	1.8	HRS
MLAT	0.00	0.00	0.00	50.98	60.42	70.27	80.31	68.58	-7.13	*****	-3.93	DEGS
INVLAT	0.0	0.0	0.0	73.0	76.6	80.5	85.3	77.2	24.2	55.8	55.5	

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Mon Sep 6 17:32:33 1993

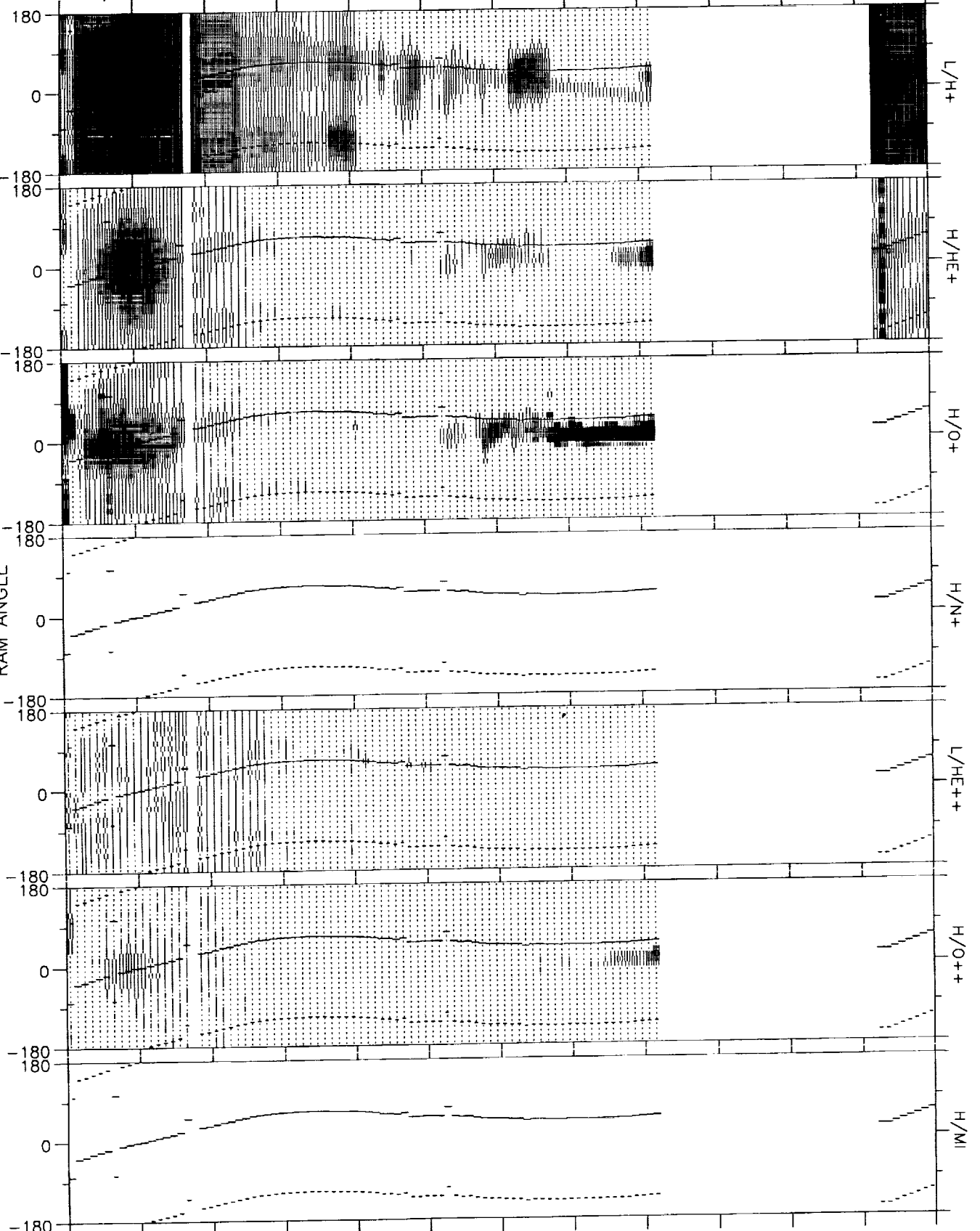
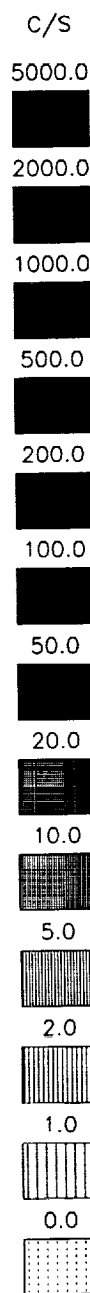
82/034 03-FEB 1215:00 - 2015:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1255	1335	0000	0000	0000	1615	1655	0000	0000	1855	1935	DEGS
RE	3.9	4.4	0.0	0.0	0.0	3.8	2.9	0.0	0.0	2.7	3.6	HHMM
L	3.9	5.0	0.0	0.0	0.0	17.2	100.0	0.0	0.0	3.3	3.6	RE
MLT	1.6	1.4	0.0	0.0	0.0	0.9	0.1	0.0	0.0	1.5	1.5	
MLAT	10.15	21.16	0.00	0.00	0.00	60.72	79.34	0.00	0.00	*****	-4.33	HRS
INVLAT	59.7	63.3	0.0	0.0	0.0	76.0	84.6	0.0	0.0	56.3	58.1	DEGS

DE RIMS SPIN SUMMARY
SPIN/RADIAL/L (V1.0)
Mon Sep 6 17:34:44 1993

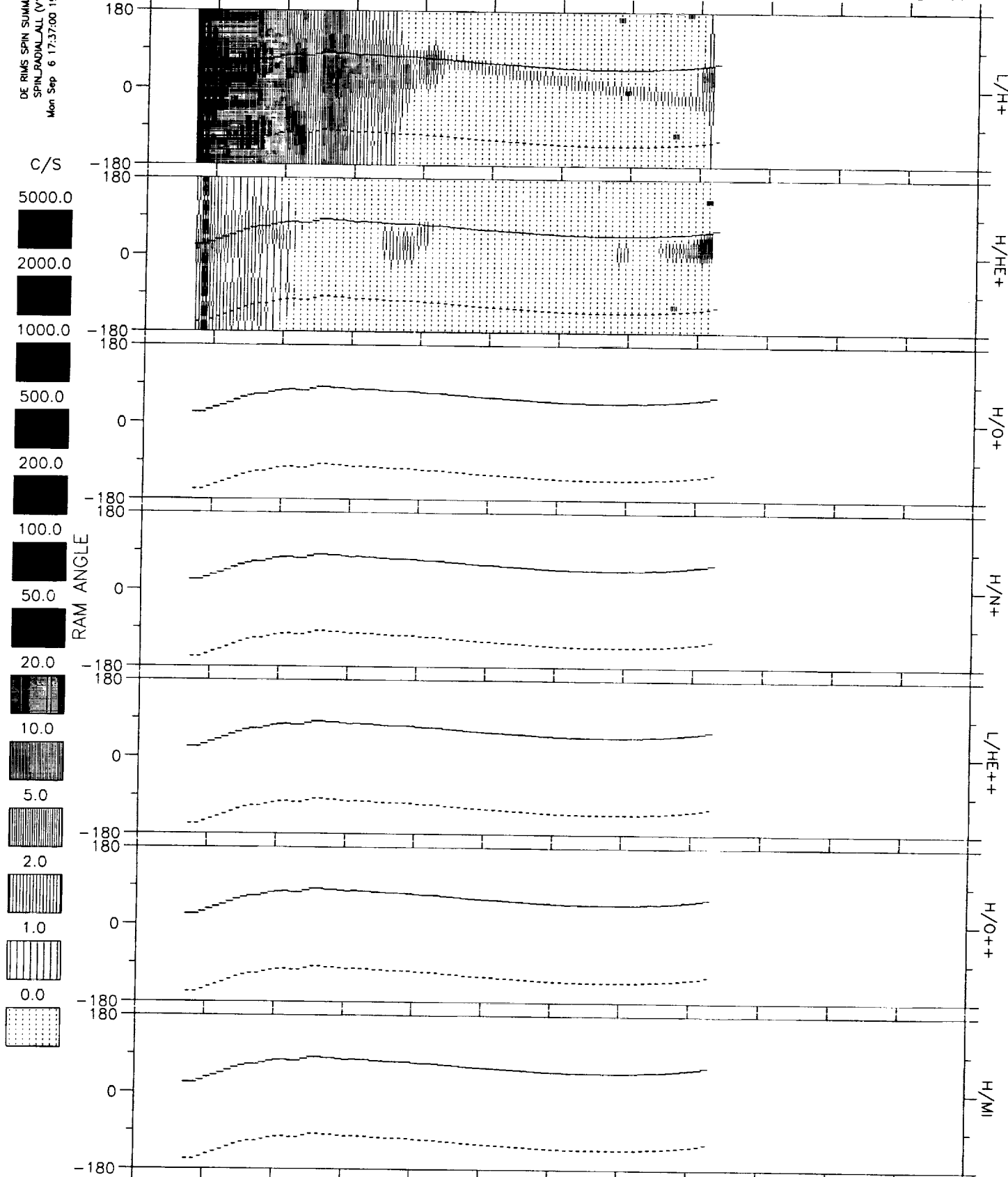
82/034 03-FEB 1830:00 - 0230:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1910	1950	2030	2110	2150	2230	2310	2350	0000	0000	0000	DEGS
RE	3.1	3.9	4.4	4.6	4.6	4.3	3.7	2.8	0.0	0.0	0.0	HHMM
L	3.3	3.9	4.8	6.0	7.9	11.5	23.8	96.5	0.0	0.0	0.0	RE
MLT	1.5	1.5	1.6	1.7	1.9	2.3	3.1	8.0	0.0	0.0	0.0	HRS
MLAT	*****	2.62	16.26	28.13	39.69	52.01	66.33	78.53	0.00	0.00	0.00	DEGS
INVLAT	56.4	59.5	62.9	66.0	69.1	72.9	78.2	84.2	0.0	0.0	0.0	

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Mon Sep 6 17:37:00 1993

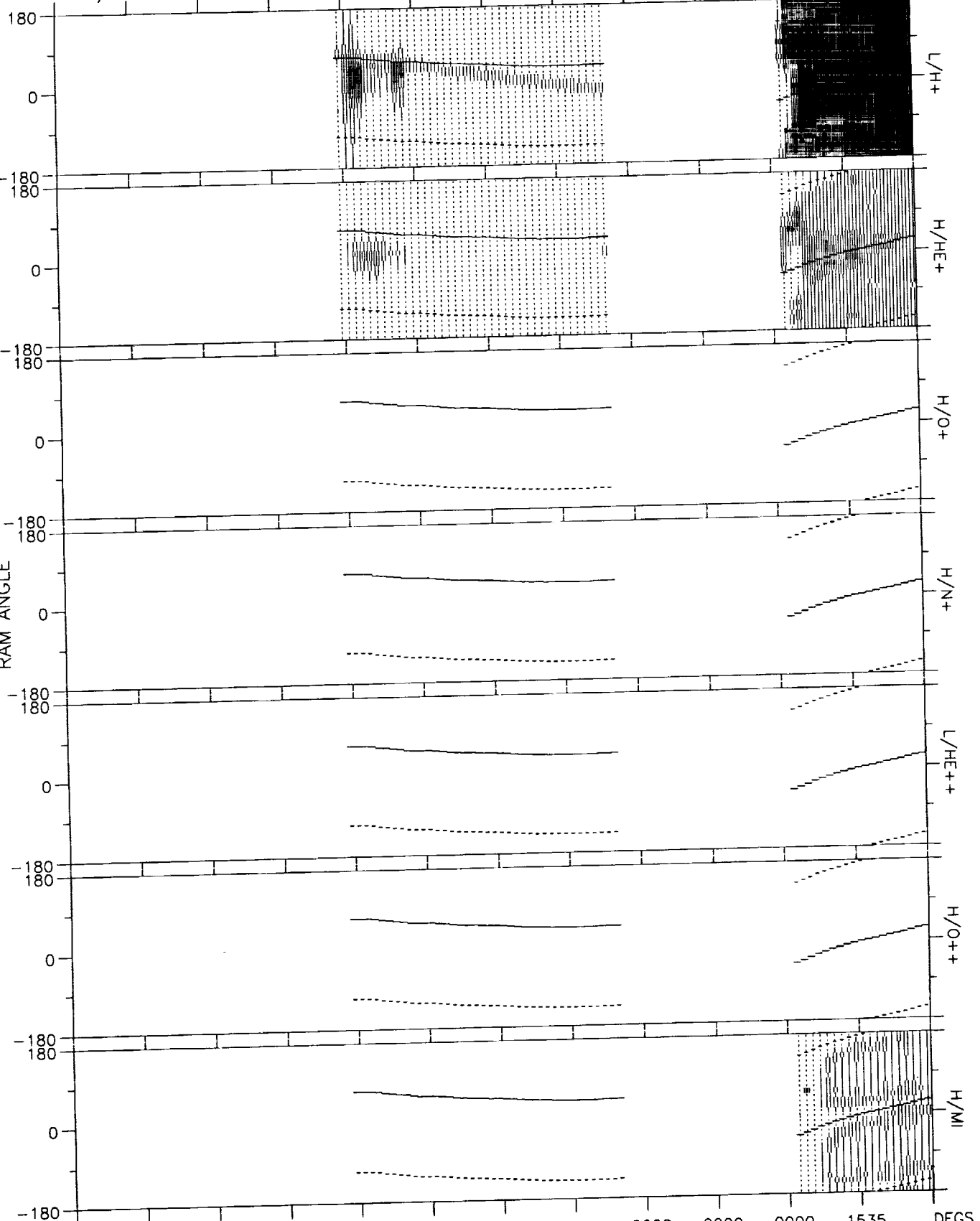
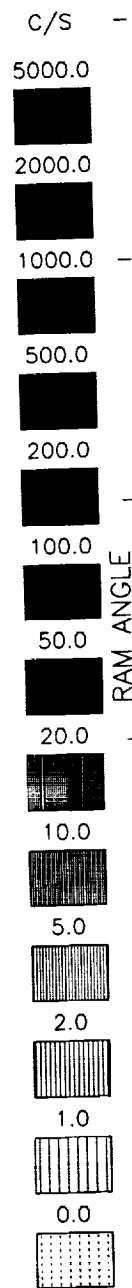
82/035 04--FEB 0130:00 - 0930:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0210	0250	0330	0410	0450	0530	0610	0650	0000	0000	0000	DEGS
RE	3.3	4.1	4.5	4.7	4.6	4.2	3.6	2.5	0.0	0.0	0.0	HHMM
L	3.4	4.7	6.8	10.2	17.2	40.8	100.0	21.1	0.0	0.0	0.0	RE
MLT	1.4	1.6	1.8	2.0	2.1	2.1	2.6	14.0	0.0	0.0	0.0	
MLAT	5.14	23.04	36.64	48.55	60.07	72.42	87.67	67.88	0.00	0.00	0.00	HRS
INVLAT	57.2	62.6	67.4	71.7	76.0	81.0	88.0	77.4	0.0	0.0	0.0	DEGS

DE RMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Mon Sep 6 17:38:34 1993

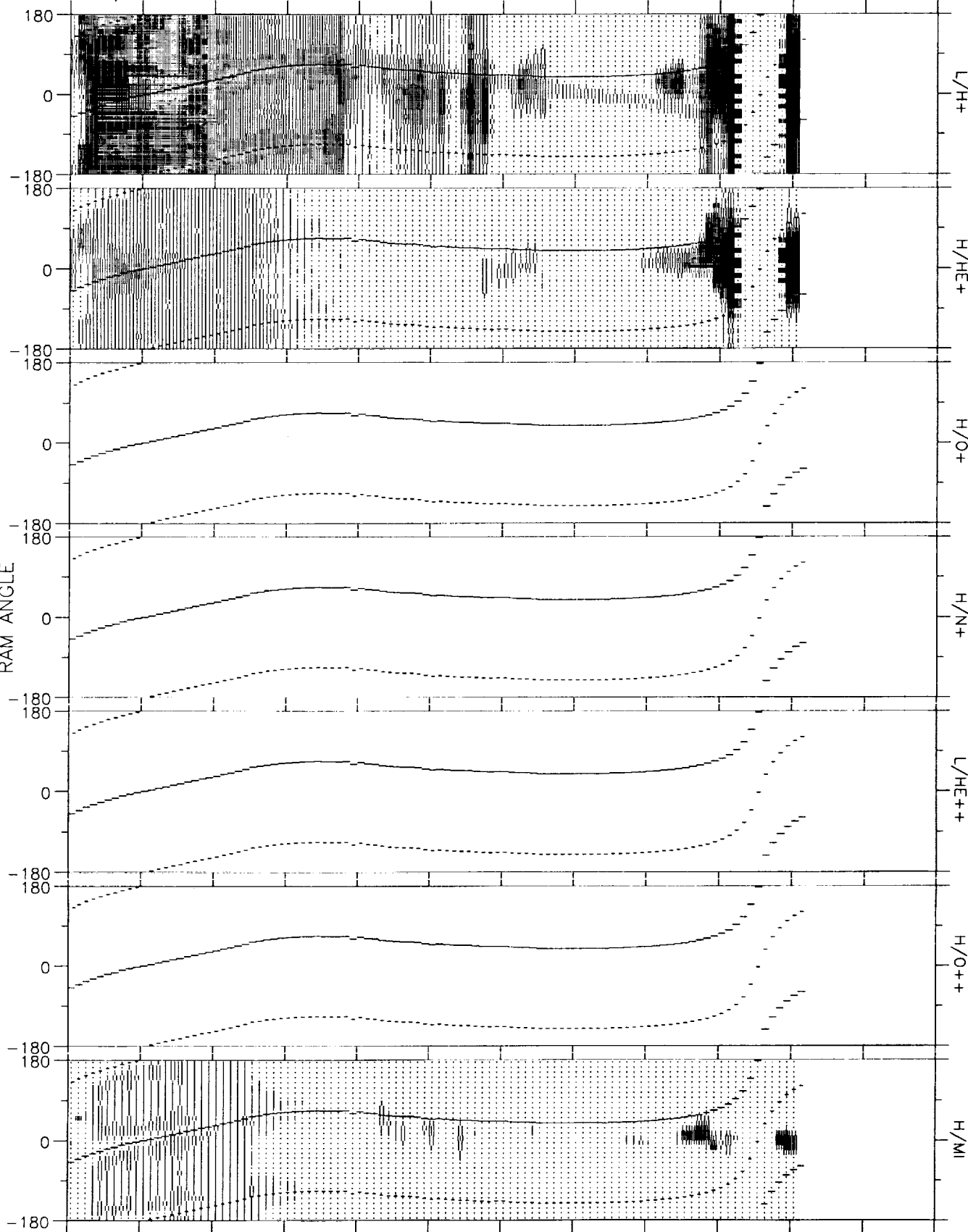
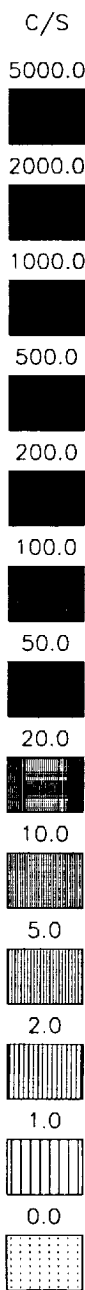
82/035 04-FEB 0815:00 - 1615:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	1055	1135	1215	1255	0000	0000	0000	1535	DEGS
RE	0.0	0.0	0.0	4.7	4.6	4.3	3.7	0.0	0.0	0.0	2.9	HHMM
L	0.0	0.0	0.0	8.1	10.7	15.4	30.8	0.0	0.0	0.0	3.2	RE
MLT	0.0	0.0	0.0	1.2	0.9	0.5	23.6	0.0	0.0	0.0	1.7	HRS
MLAT	0.00	0.00	0.00	41.16	49.25	58.00	68.90	0.00	0.00	0.00	*****	DEGS
INVLAT	0.0	0.0	0.0	69.5	72.2	75.2	79.6	0.0	0.0	0.0	55.9	

DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Mon Sep 6 17:40:03 1993

82/035 04-FEB 1500:00 - 2300:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1540	1620	1700	1740	1820	1900	1940	2020	2100	2140	0000	DEGS
RE	3.0	3.9	4.4	4.6	4.6	4.3	3.8	2.9	1.6	1.4	0.0	HHMM
L	3.2	3.8	4.7	5.7	7.1	9.5	16.7	100.0	3.7	16.9	0.0	RE
MLT	1.7	1.5	1.4	1.4	1.5	1.6	1.9	3.8	12.8	23.1	0.0	
MLAT	*****	2.24	14.41	24.86	35.07	46.42	60.33	79.96	48.69	*****	0.00	HRS
INVLAT	56.1	59.3	62.4	65.2	67.9	71.1	75.8	85.0	58.6	75.9	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Tue Sep 7 10:54:37 1993

82/035 04-FEB 2200:00 - 0600:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

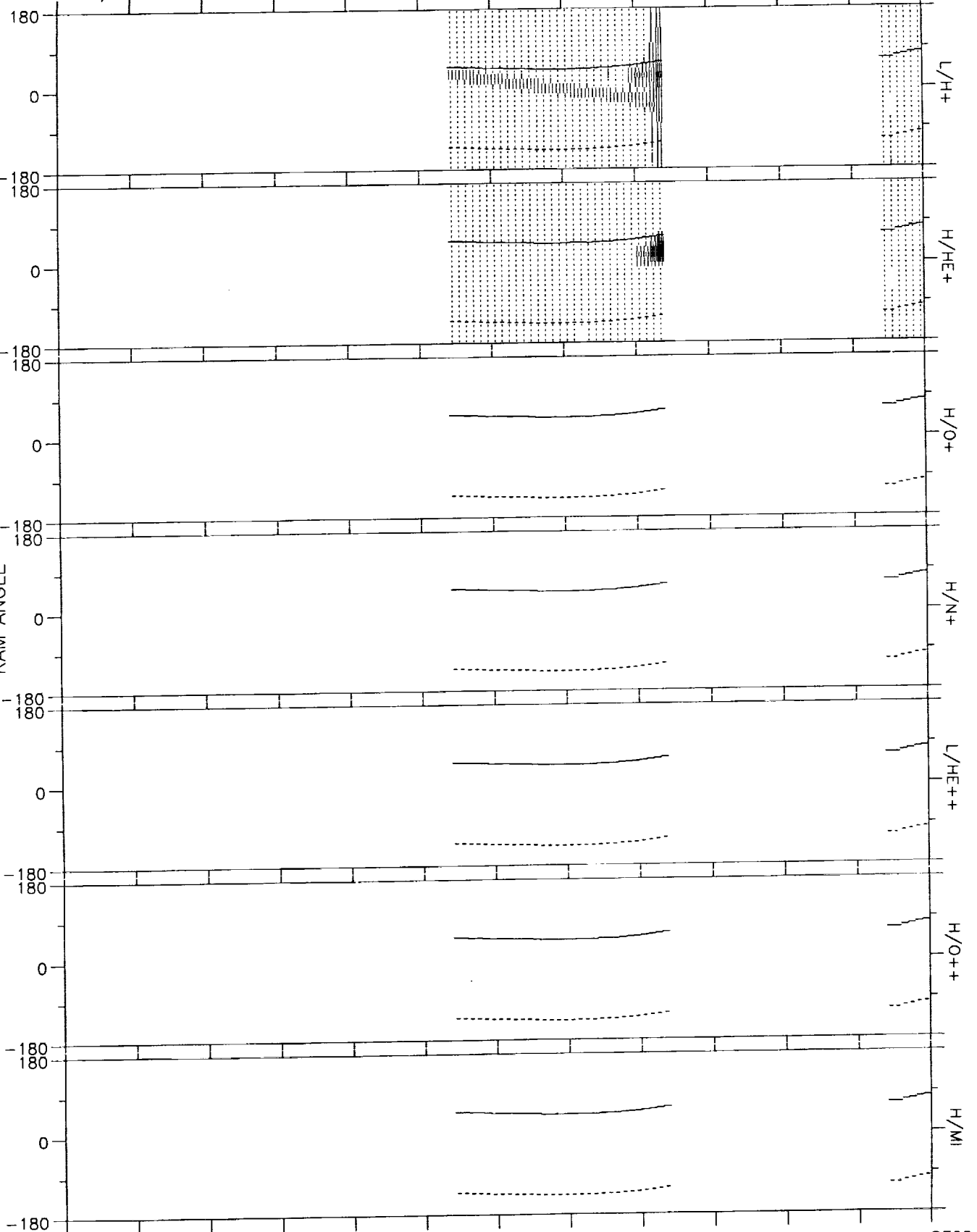
5.0

2.0

1.0

0.0

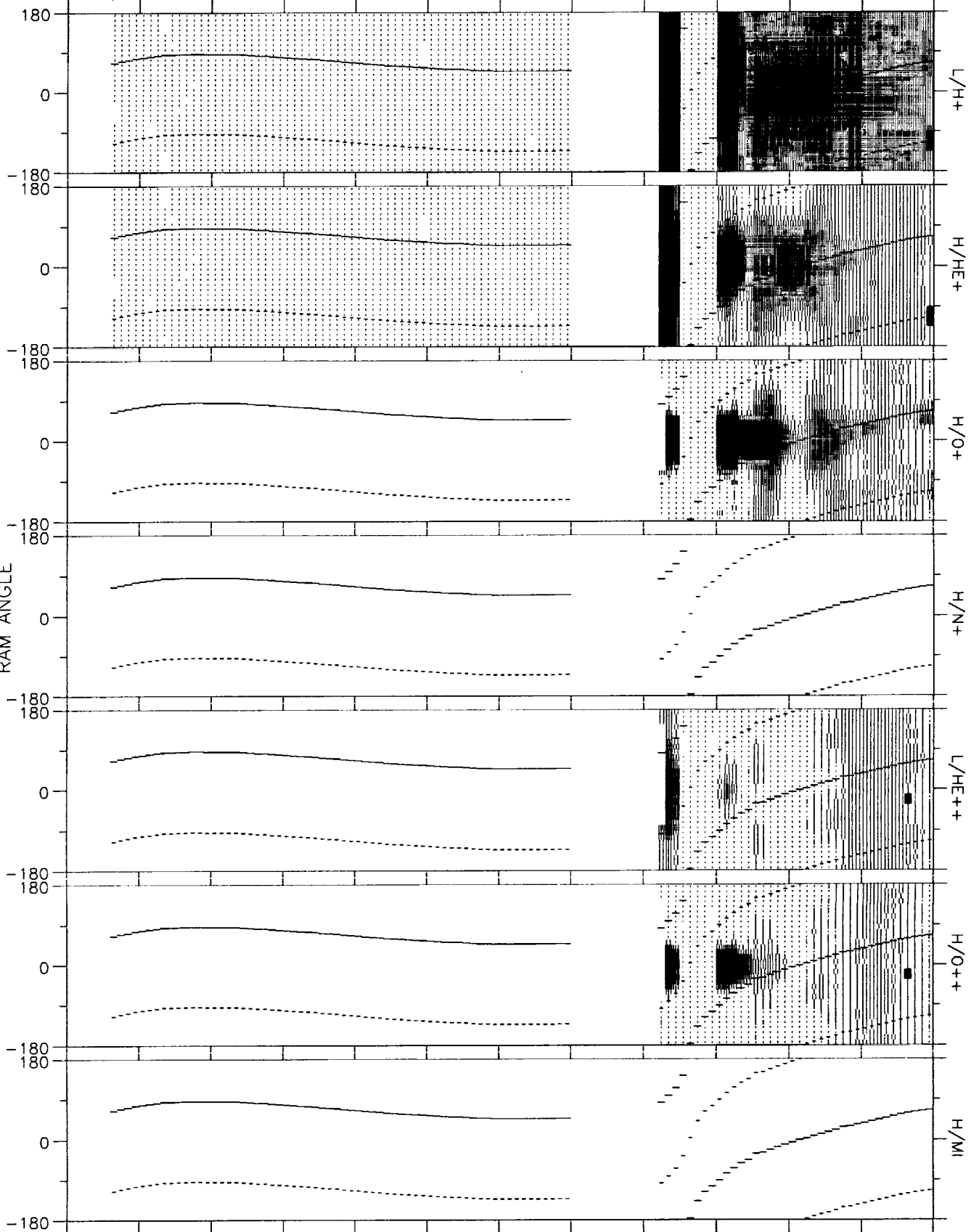
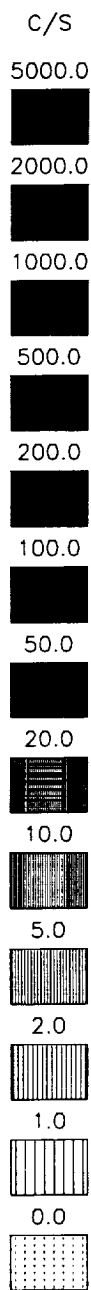
RAM ANGLE



TIME	0000	0000	0000	0000	0000	0200	0240	0320	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	4.2	3.6	2.6	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	19.4	68.0	31.8	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	2.7	4.6	11.7	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	63.39	77.48	71.61	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	76.9	83.0	79.8	0.0	0.0	0.0	

DE RMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Tue Sep 7 10:55:52 1993

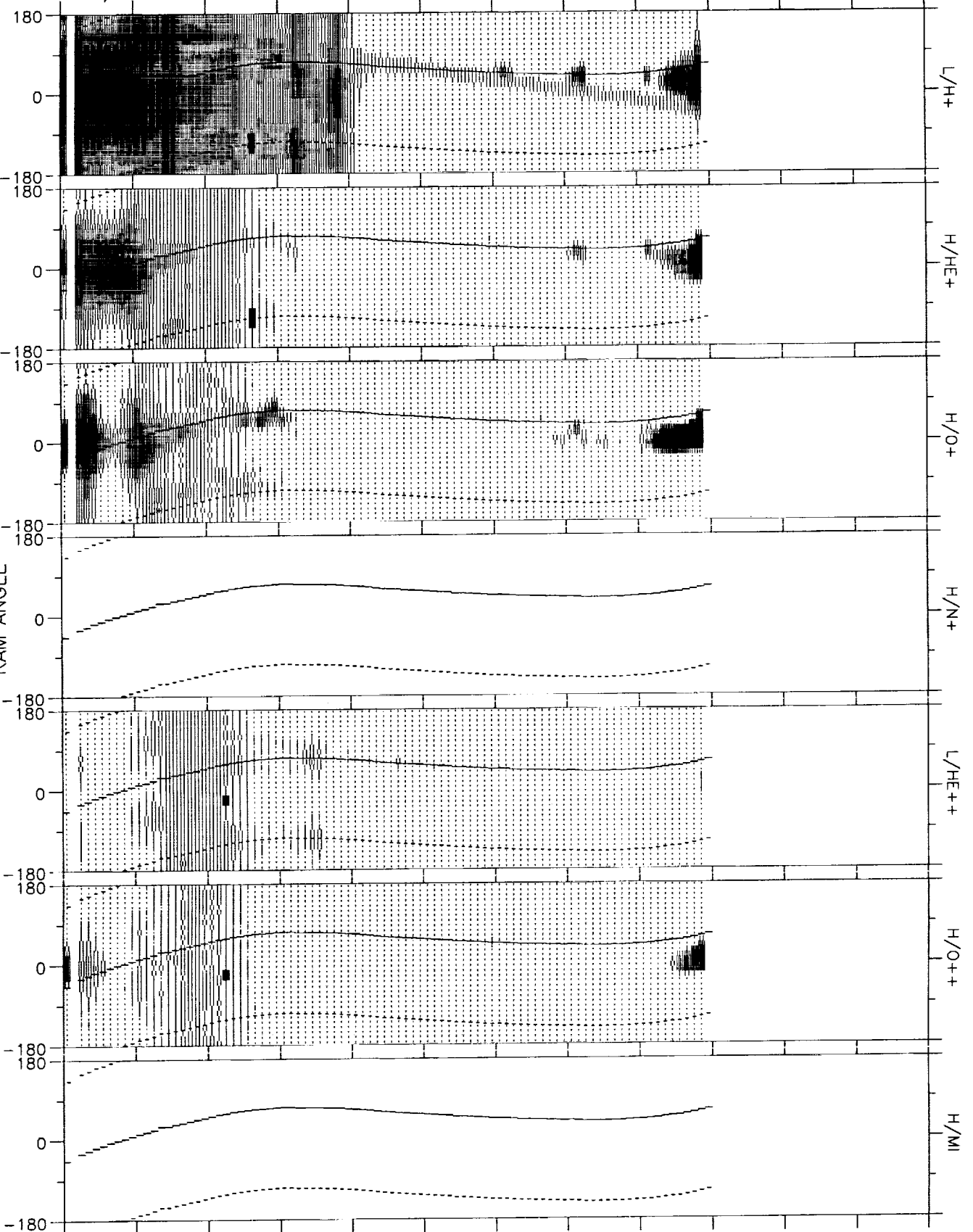
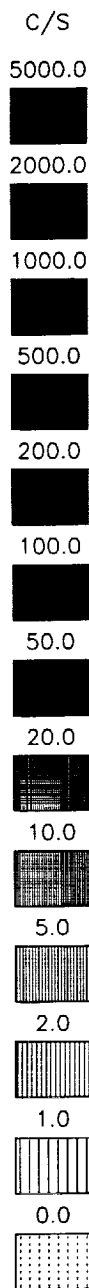
82/036 05-FEB 0515:00 - 1315:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0555	0635	0715	0755	0835	0915	0000	0000	1115	1155	1235	DEGS
RE	3.8	4.3	4.6	4.6	4.4	3.9	0.0	0.0	1.2	2.6	3.6	HHMM
L	4.4	6.4	9.4	14.0	23.4	57.3	0.0	0.0	18.8	2.8	3.5	RE
MLT	1.6	1.6	1.5	1.3	0.8	23.7	0.0	0.0	6.8	1.9	1.6	
MLAT	20.83	34.45	45.26	54.86	64.36	74.68	0.00	0.00	****	****	3.91	HRS
INVLAT	61.5	66.8	70.9	74.5	78.1	82.4	0.0	0.0	76.7	53.6	57.9	DEGS

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Tue Sep 7 11:02:04 1993

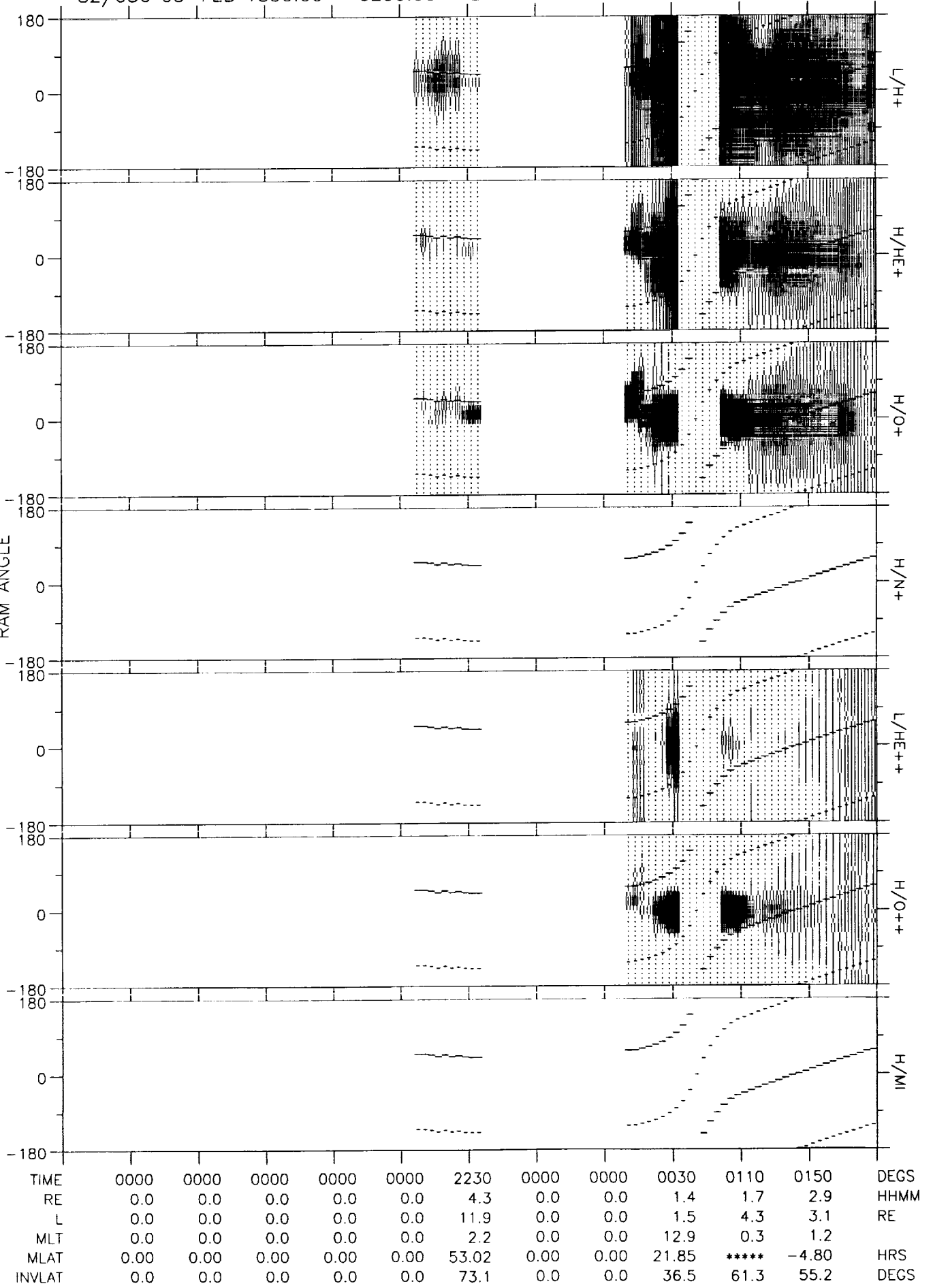
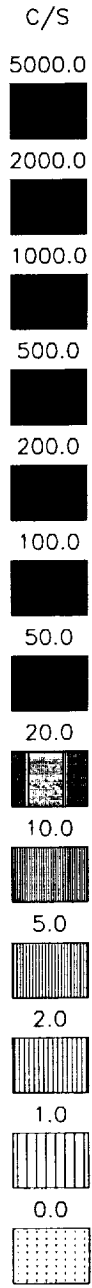
82/036 05-FEB 1130:00 - 1930:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1210	1250	1330	1410	1450	1530	1610	1650	0000	0000	0000	DEGS
RE	3.0	3.9	4.4	4.6	4.6	4.4	3.8	2.9	0.0	0.0	0.0	HHMM
L	3.0	3.9	4.9	6.0	7.5	9.8	16.2	95.2	0.0	0.0	0.0	RE
MLT	1.8	1.5	1.3	1.2	1.0	0.9	0.8	0.1	0.0	0.0	0.0	HRS
MLAT	-7.76	9.17	20.24	29.28	37.98	47.59	59.79	78.36	0.00	0.00	0.00	DEGS
INVLAT	54.9	59.5	63.1	66.0	68.5	71.4	75.6	84.1	0.0	0.0	0.0	

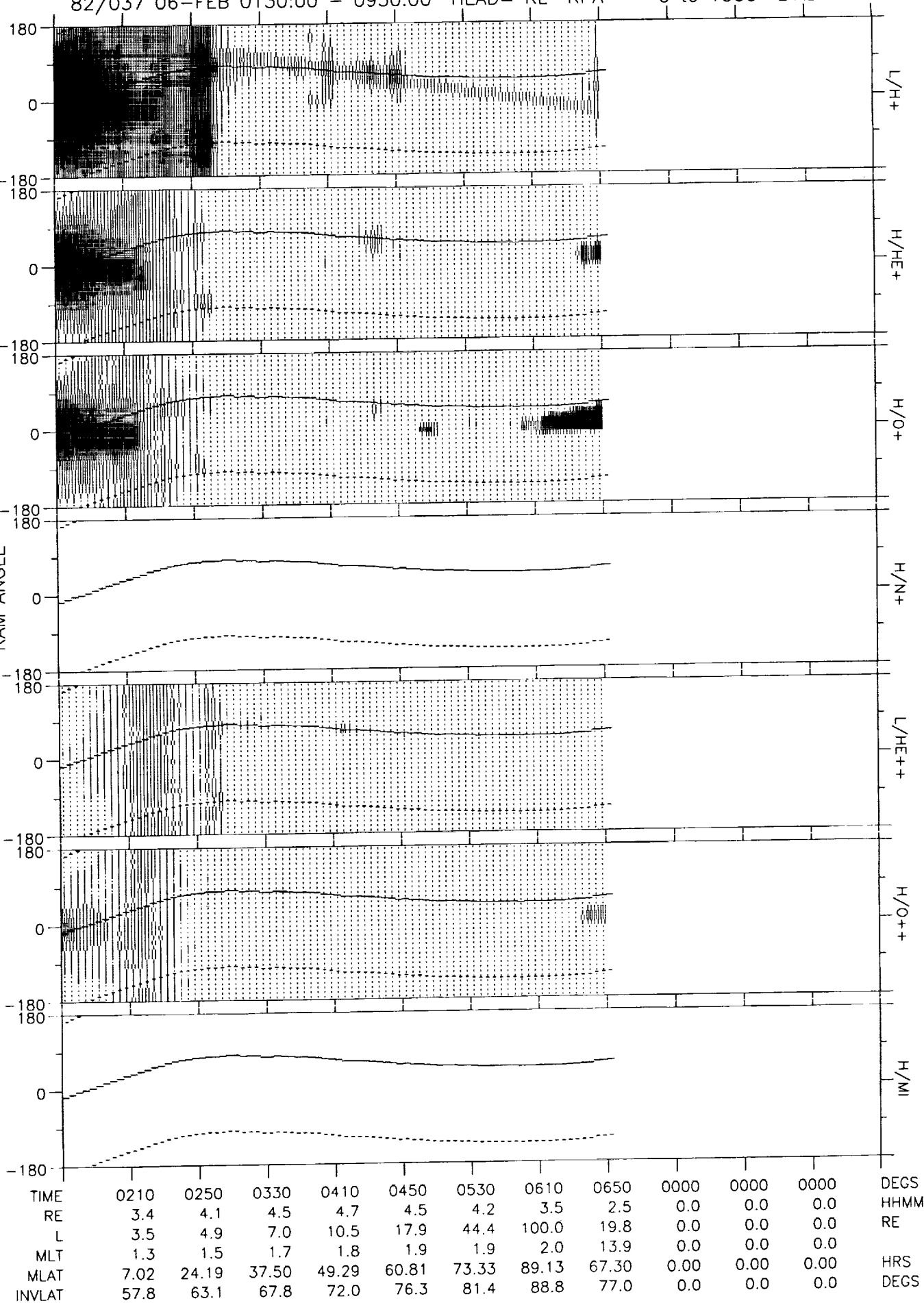
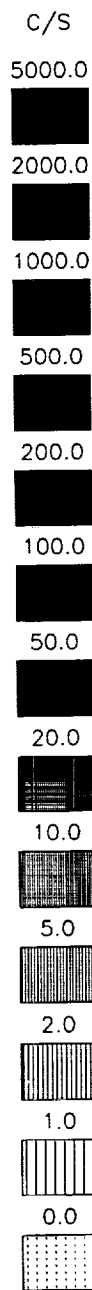
DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Tue Sep 7 11:04:19 1993

82/036 05-FEB 1830:00 - 0230:00 HEAD= RL RPA= 0 to 1000 BIAS= A



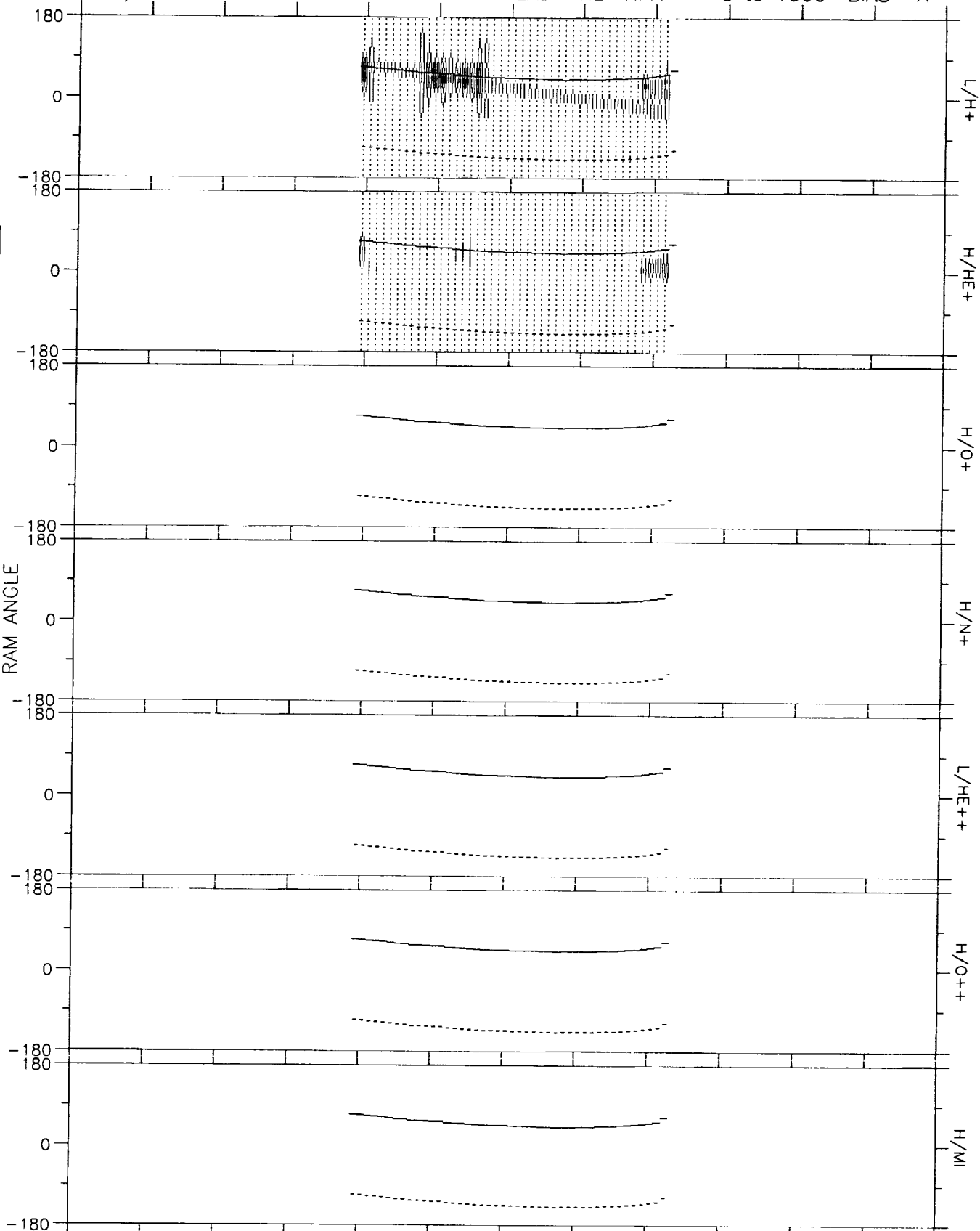
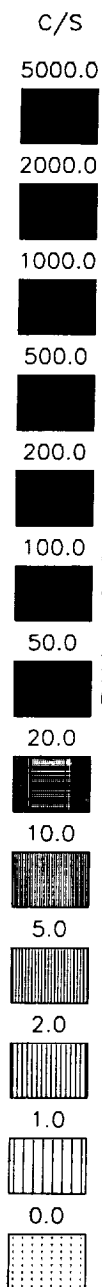
DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Tue Sep 7 11:07:03 1993

82/037 06-FEB 0130:00 - 0930:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN-RADIALALL (V1.0)
Tue Sep 7 11:11:20 1993

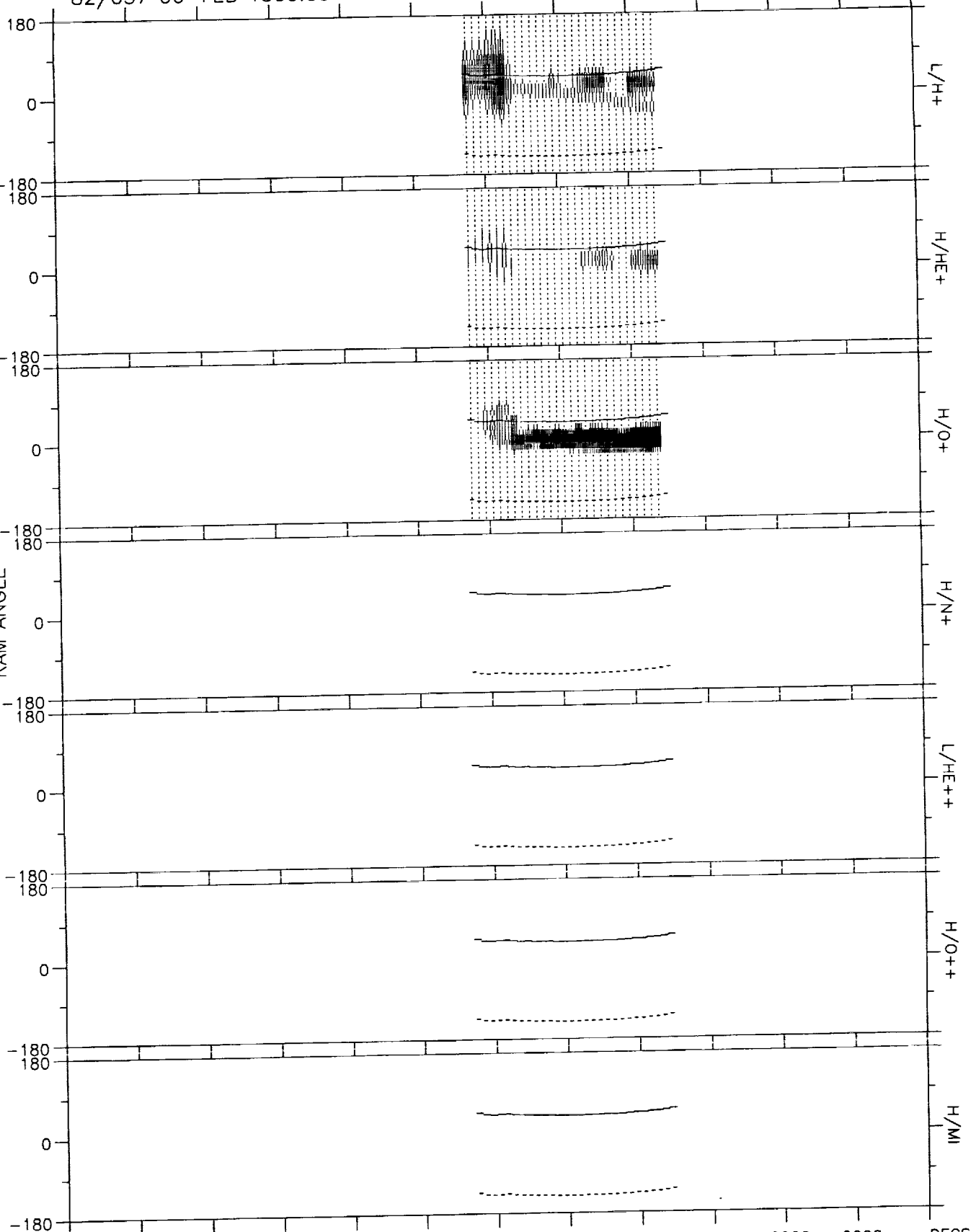
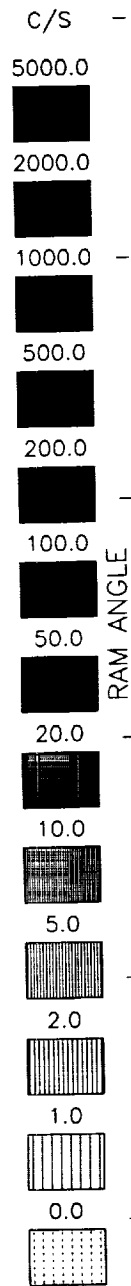
82/037 06-FEB 0815:00 - 1615:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	1055	1135	1215	1255	1335	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	4.7	4.6	4.2	3.6	2.6	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	8.2	10.7	15.5	32.7	65.7	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	1.0	0.7	0.3	23.4	17.9	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	41.26	49.38	58.32	69.66	78.27	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	69.5	72.2	75.3	79.9	82.9	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Tue Sep 7 11:12:37 1993

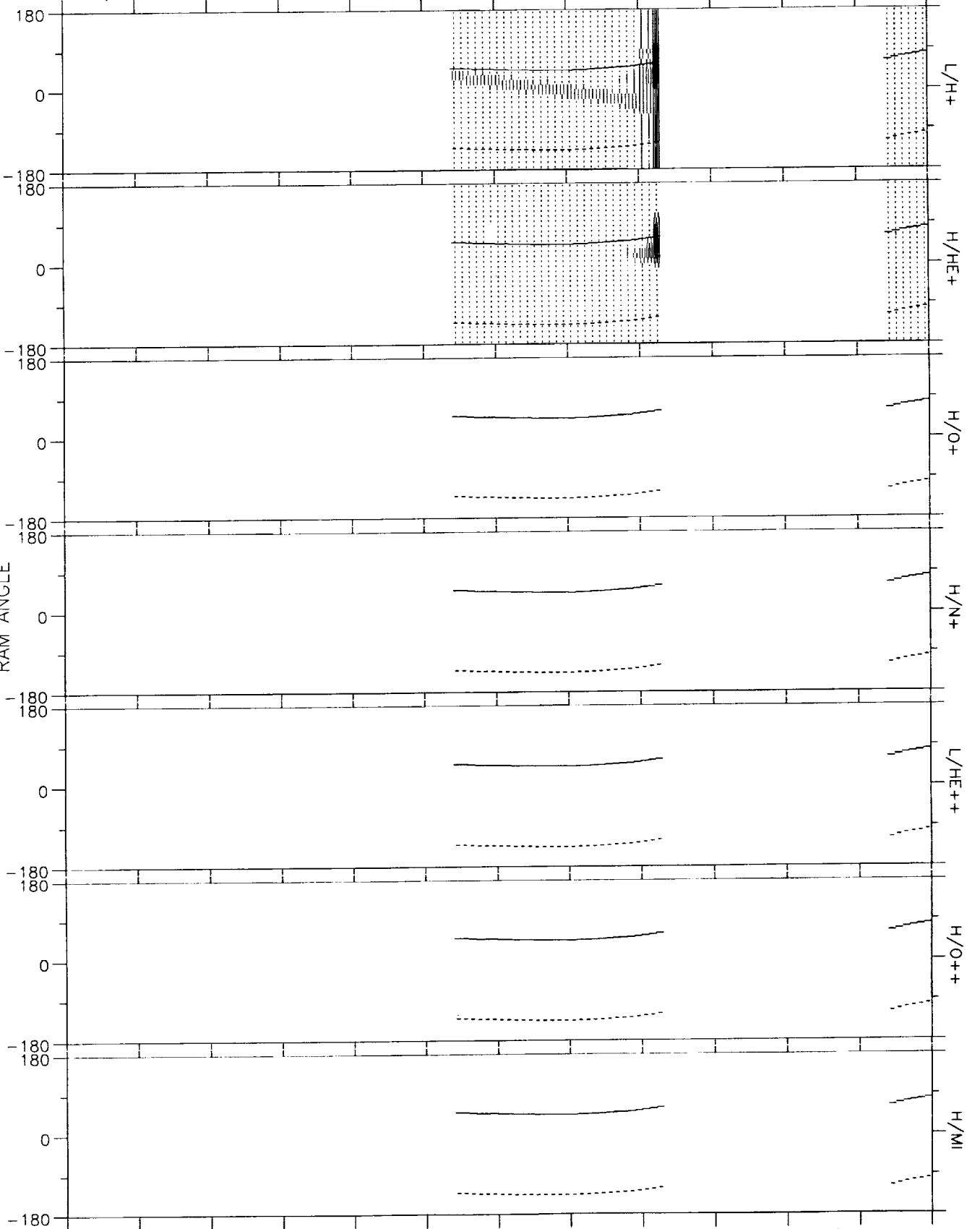
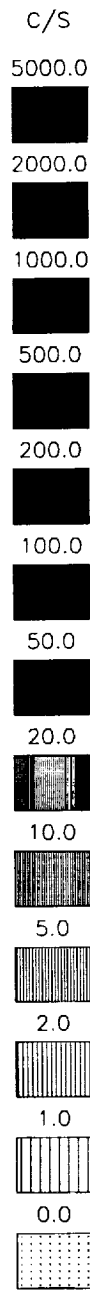
82/037 06-FEB 1500:00 - 2300:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	1900	1940	2020	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	4.3	3.7	2.8	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	9.7	17.7	100.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	1.5	1.9	4.5	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	47.15	61.53	81.79	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	71.3	76.2	86.1	0.0	0.0	0.0	

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Tue Sep 7 11:13:58 1993

82/037 06-FEB 2200:00 - 0600:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	0200	0240	0320	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	4.2	3.5	2.5	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	20.6	81.4	21.6	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	2.6	4.8	11.9	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	64.49	78.70	68.47	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	77.3	83.6	77.6	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Tue Sep 7 11:26:47 1993

82/038 07-FEB 0515:00 - 1315:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

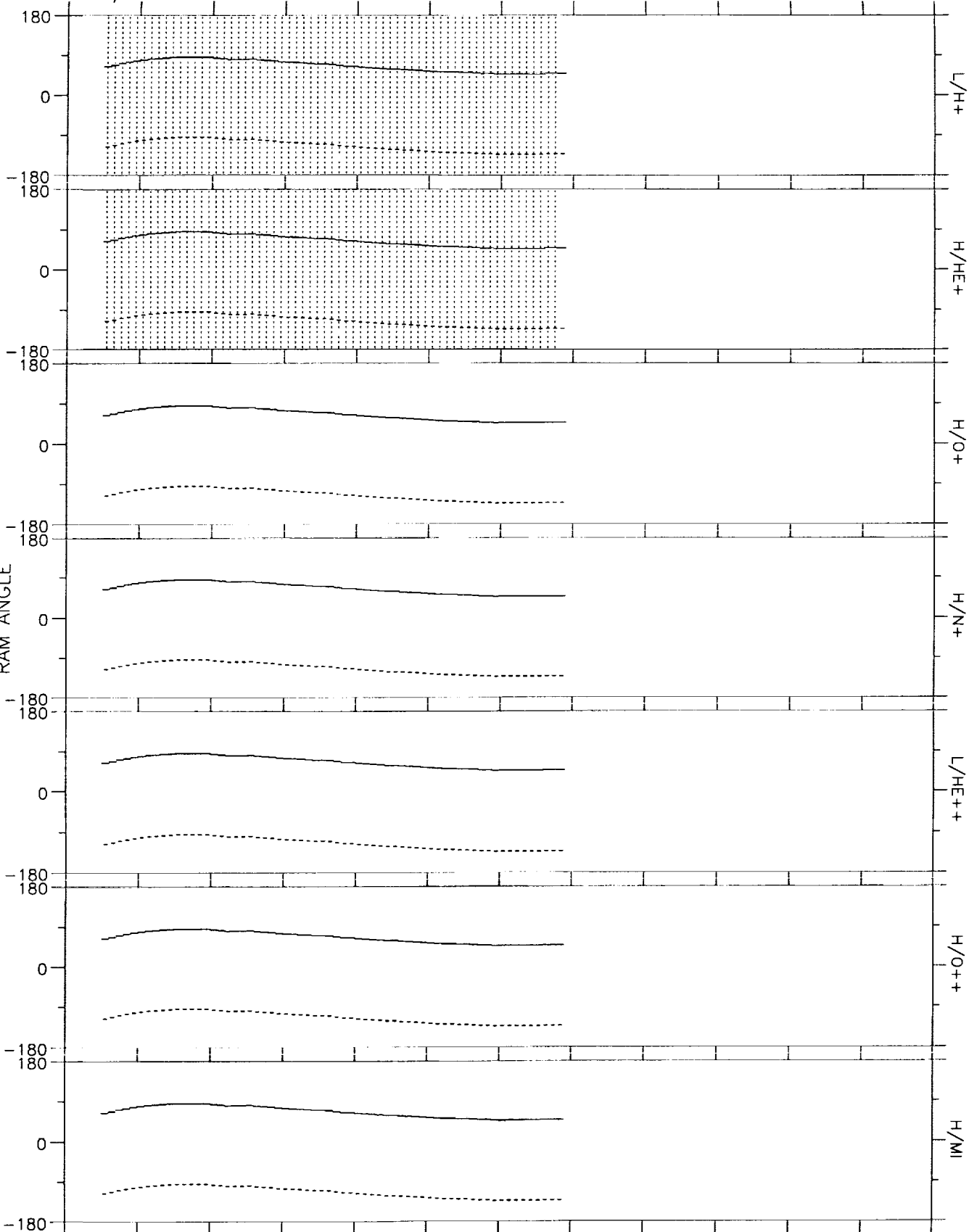
5.0

2.0

1.0

0.0

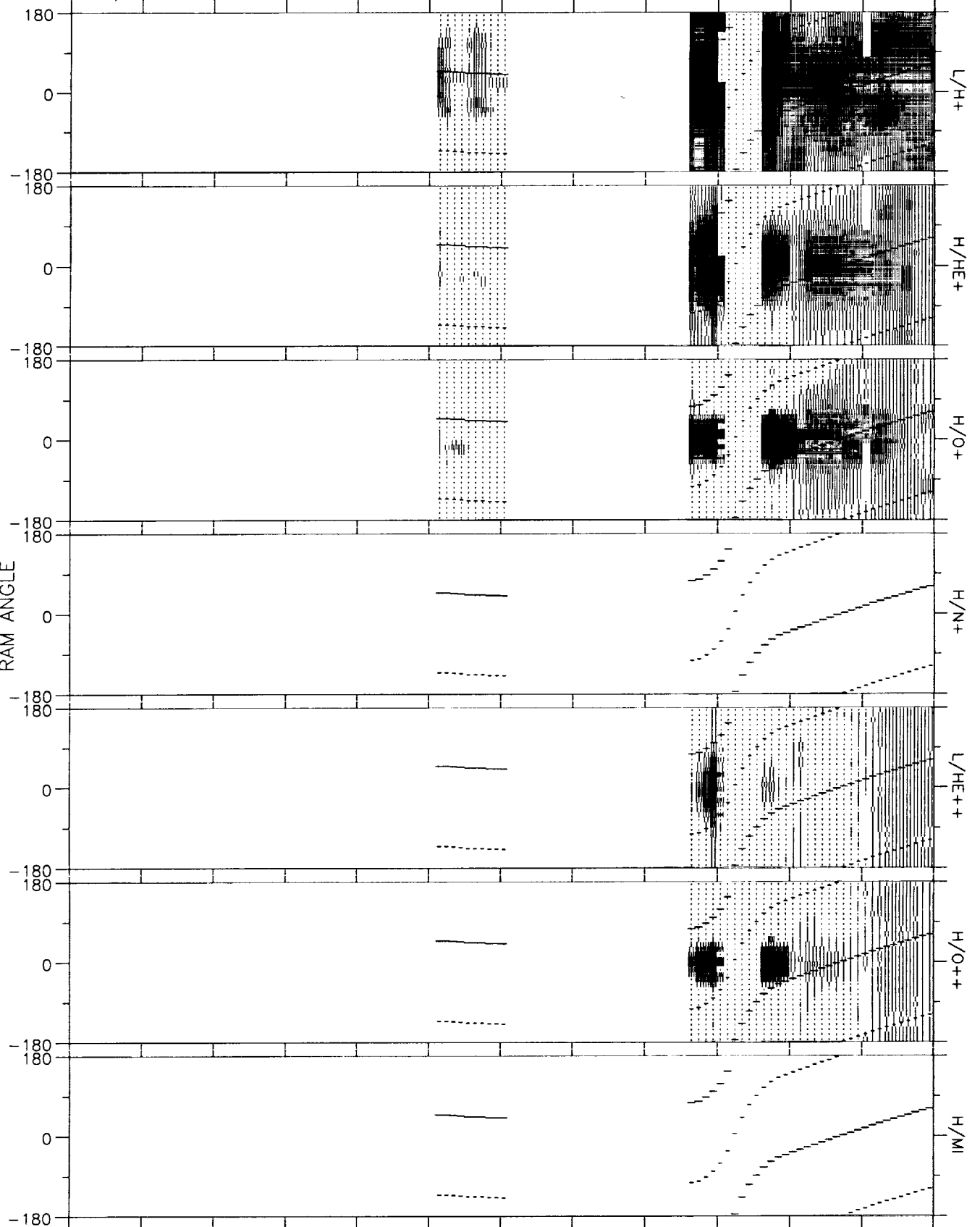
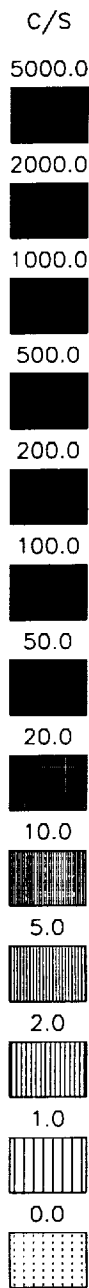
RAM ANGLE



TIME	0555	0635	0715	0755	0835	0915	0000	0000	0000	0000	0000	DEGS
RE	3.9	4.4	4.6	4.6	4.4	3.8	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.5	6.6	9.5	14.1	23.8	60.6	0.0	0.0	0.0	0.0	0.0	RE
MLT	1.5	1.4	1.3	1.1	0.6	23.4	0.0	0.0	0.0	0.0	0.0	
MLAT	21.96	35.10	45.66	55.16	64.69	75.18	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.0	67.1	71.1	74.6	78.2	82.6	0.0	0.0	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Tue Sep 7 11:28:09 1993

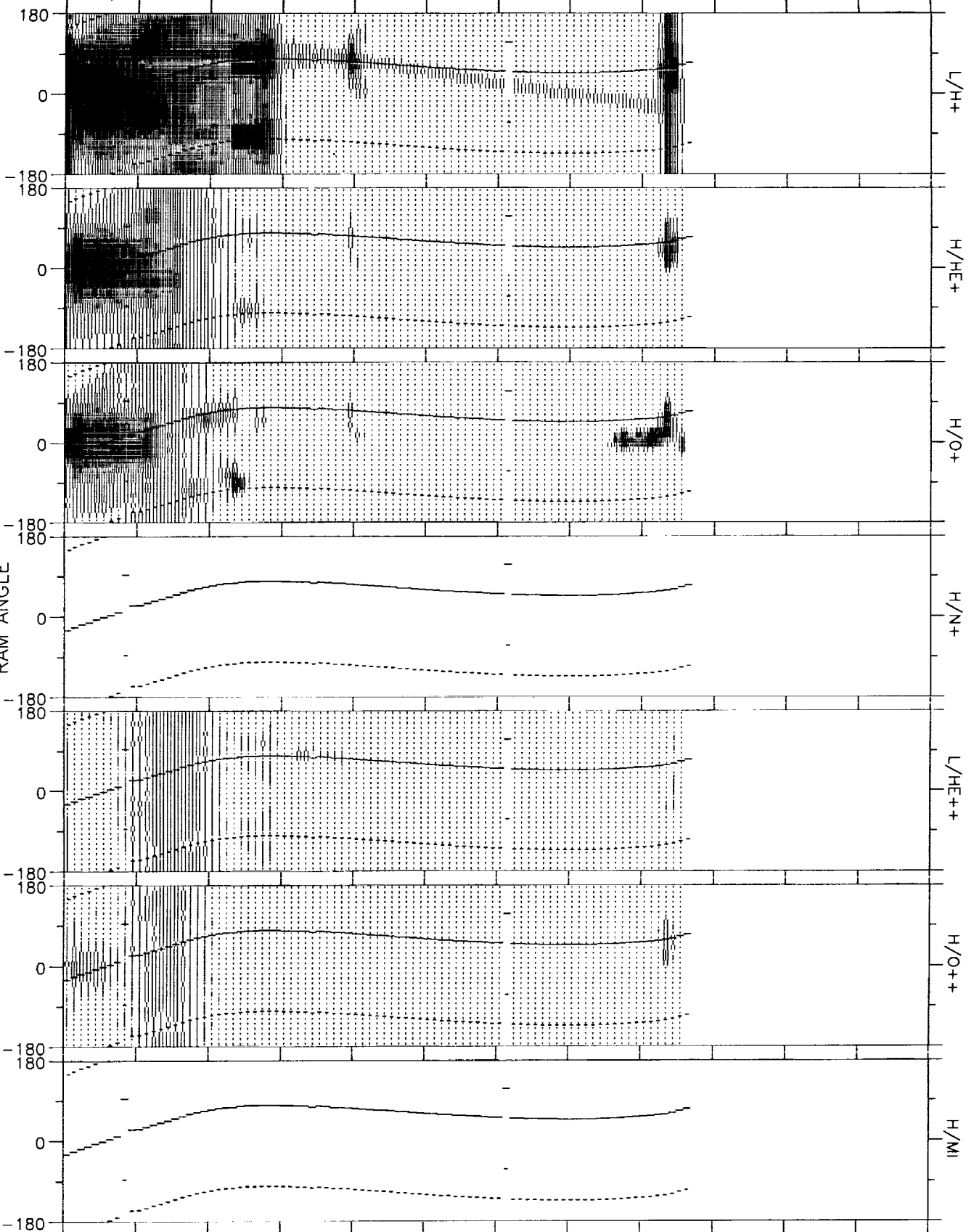
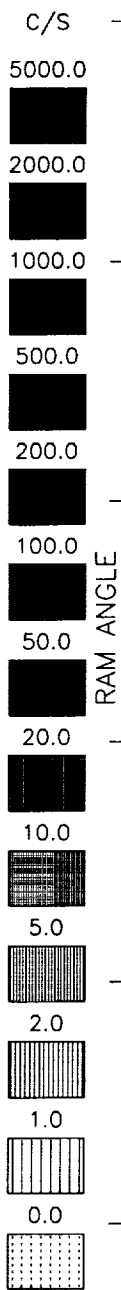
82/038 07-FEB 1830:00 - 0230:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	2230	0000	0000	0030	0110	0150	DEGS
RE	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	1.2	1.8	3.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.0	1.2	3.7	3.1	RE
MLT	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	13.0	0.4	1.0	
MLAT	0.00	0.00	0.00	0.00	0.00	53.34	0.00	0.00	7.32	****	-4.85	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	73.2	0.0	0.0	25.4	58.6	55.3	DEGS

DE RMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Tue Sep 7 11:30:03 1993

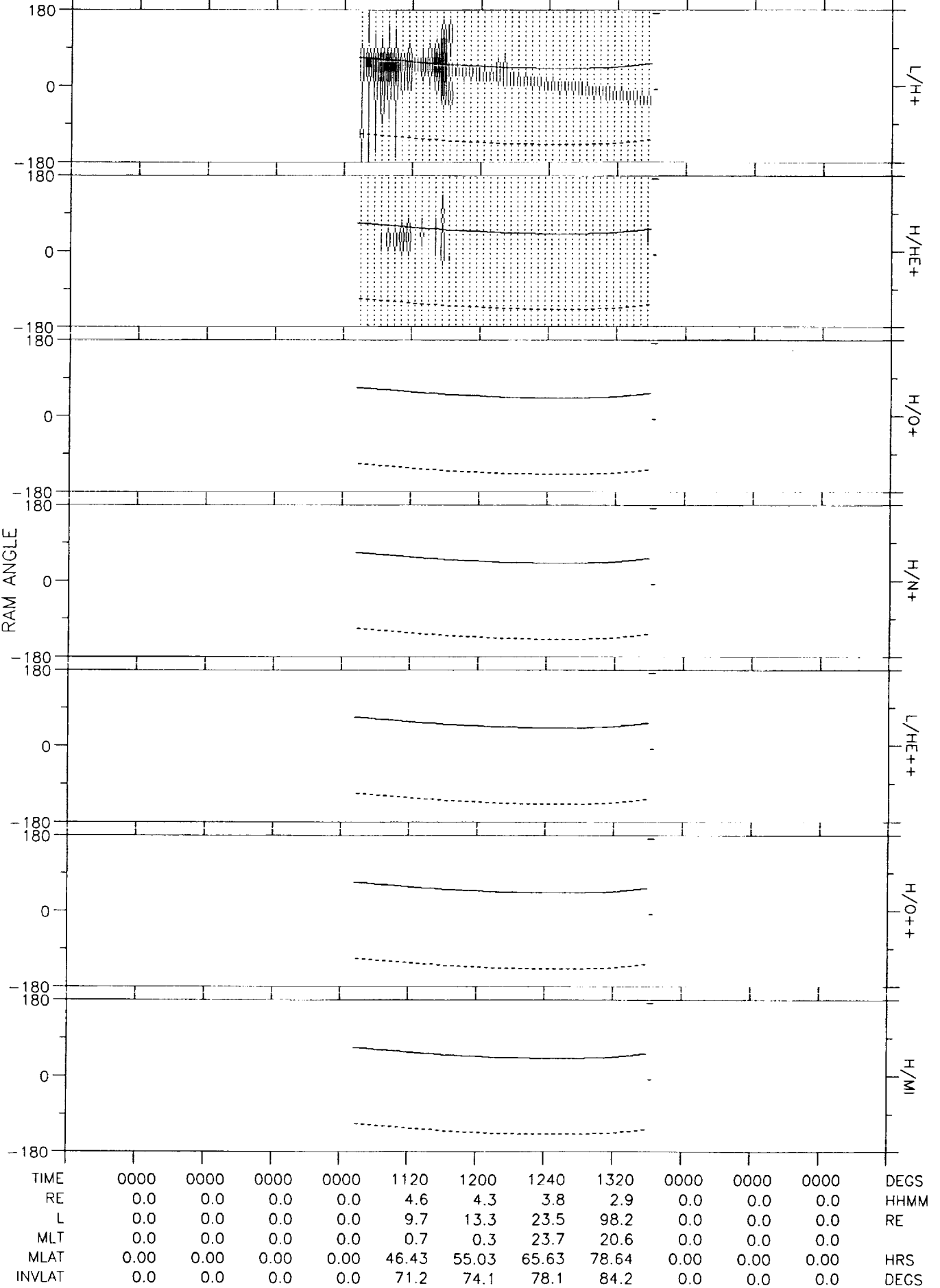
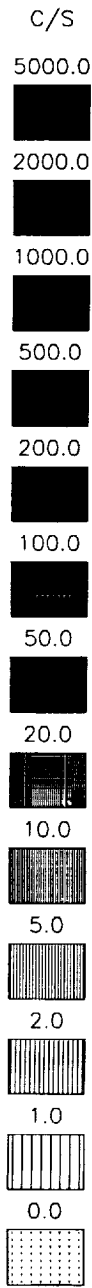
82/039 08-FEB 0115:00 - 0915:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0155	0235	0315	0355	0435	0515	0555	0635	0000	0000	0000	DEGS
RE	3.2	4.0	4.5	4.7	4.6	4.3	3.7	2.7	0.0	0.0	0.0	HHMM
L	3.3	4.4	6.3	9.2	14.8	31.1	100.0	44.2	0.0	0.0	0.0	RE
MLT	1.1	1.3	1.5	1.6	1.7	1.8	1.7	13.8	0.0	0.0	0.0	
MLAT	0.79	19.74	33.73	45.75	57.20	69.29	83.85	74.02	0.00	0.00	0.00	HRS
INVLAT	56.4	61.7	66.5	70.8	74.9	79.7	86.2	81.3	0.0	0.0	0.0	DEGS

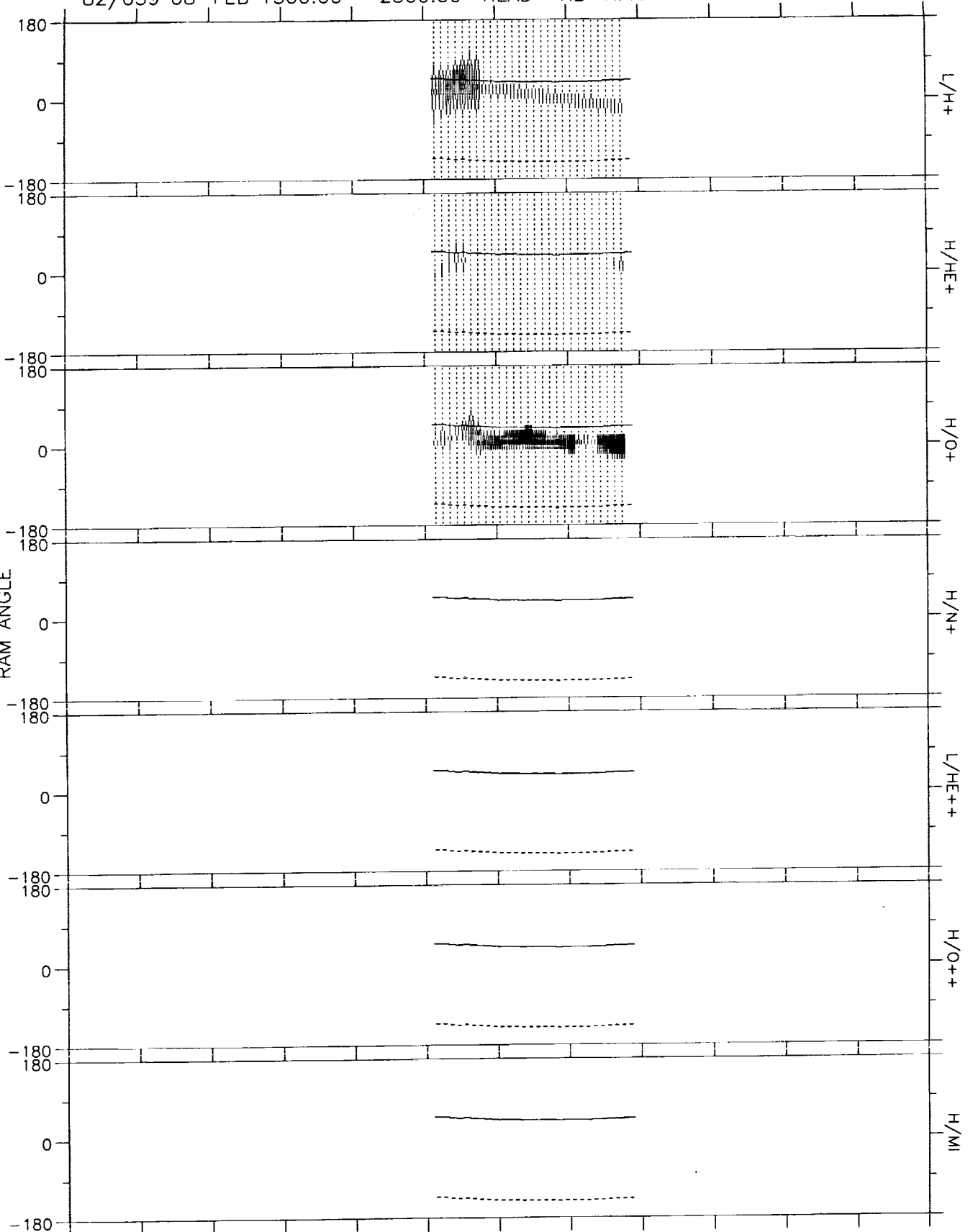
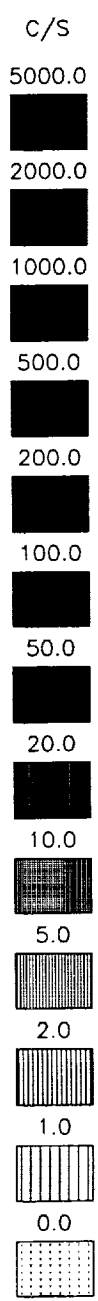
DE RINS SPIN SUMMARY
SPIN/RADIAL (V1.0)
Tue Sep 7 11:34:01 1993

82/039 08--FEB 0800:00 - 1600:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Tue Sep 7 11:35:21 1993

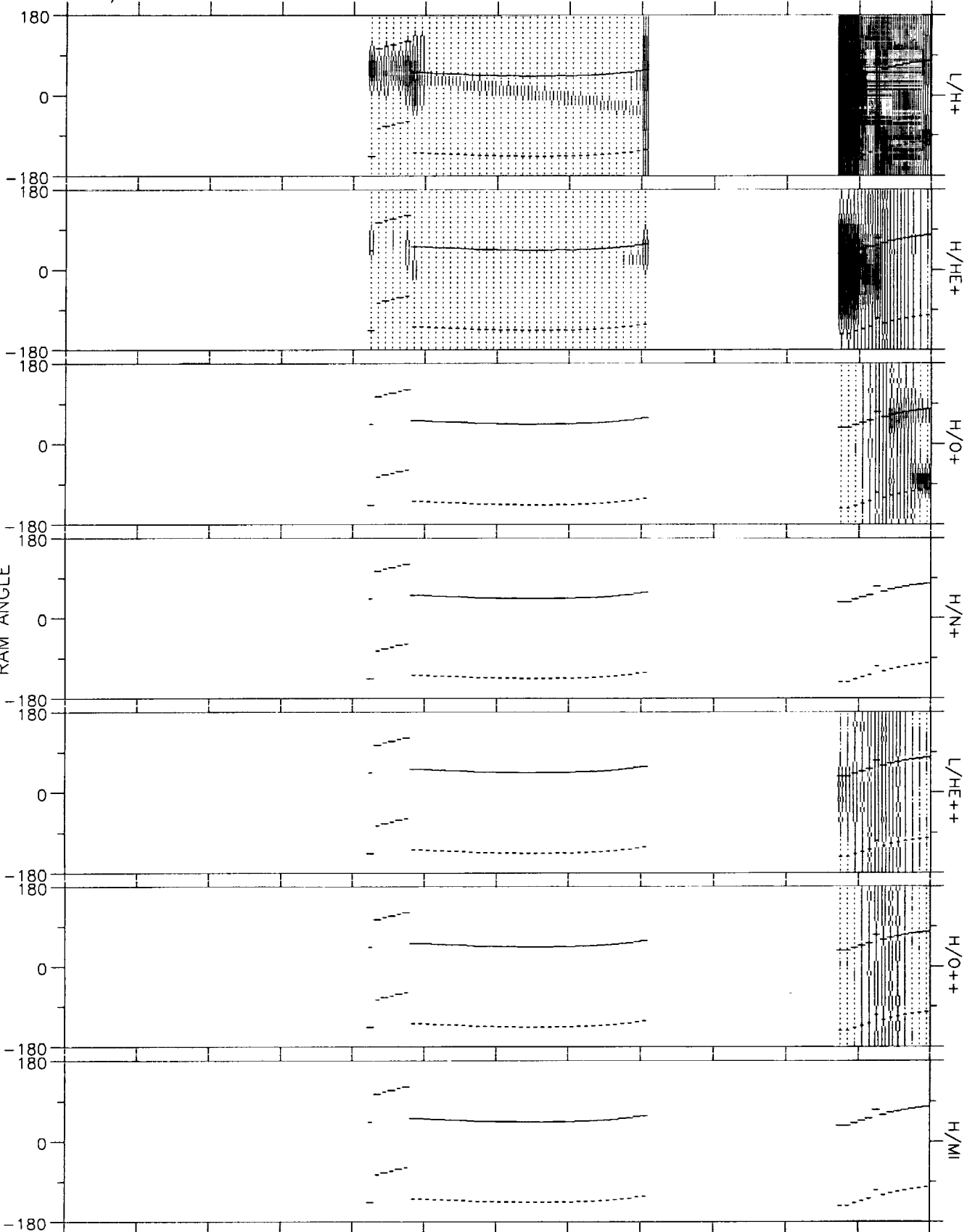
82/039 08-FEB 1500:00 - 2300:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	1900	1940	0000	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	4.2	3.6	0.0	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	9.9	18.9	0.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	1.4	1.8	0.0	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	47.98	62.88	0.00	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	71.5	76.7	0.0	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Tue Sep 7 11:36:37 1993

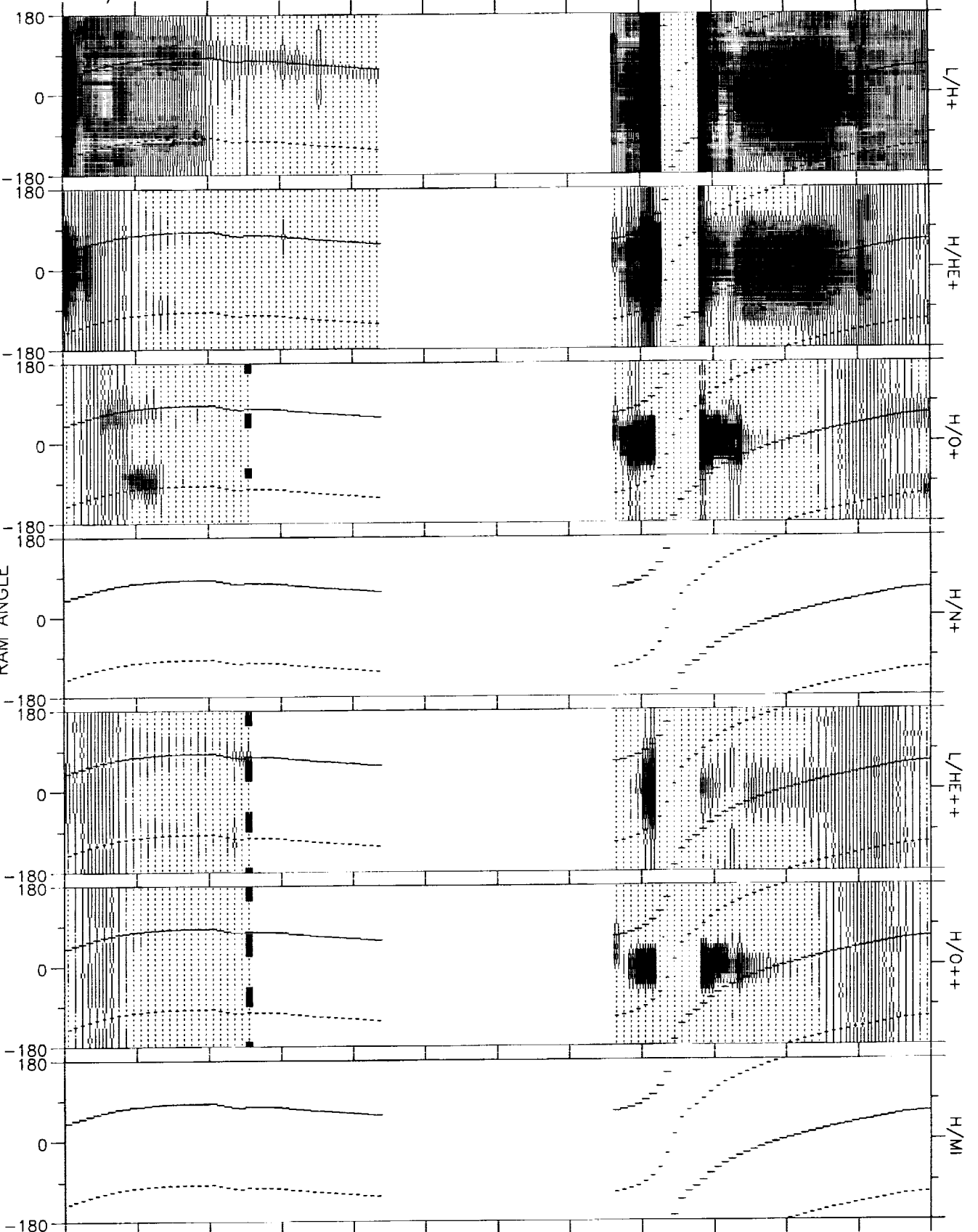
82/039 08-FEB 2200:00 - 0600:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0120	0200	0240	0320	0000	0000	0520	DEGS
RE	0.0	0.0	0.0	0.0	4.5	4.1	3.4	2.3	0.0	0.0	3.2	HHMM
L	0.0	0.0	0.0	0.0	11.5	22.0	99.9	14.9	0.0	0.0	3.4	RE
MLT	0.0	0.0	0.0	0.0	2.0	2.6	5.2	12.0	0.0	0.0	1.3	
MLAT	0.00	0.00	0.00	0.00	52.47	65.63	79.90	64.92	0.00	0.00	7.41	HRS
INVLAT	0.0	0.0	0.0	0.0	72.8	77.7	84.3	75.0	0.0	0.0	56.9	DEGS

DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Wed Sep 8 11:05:30 1993

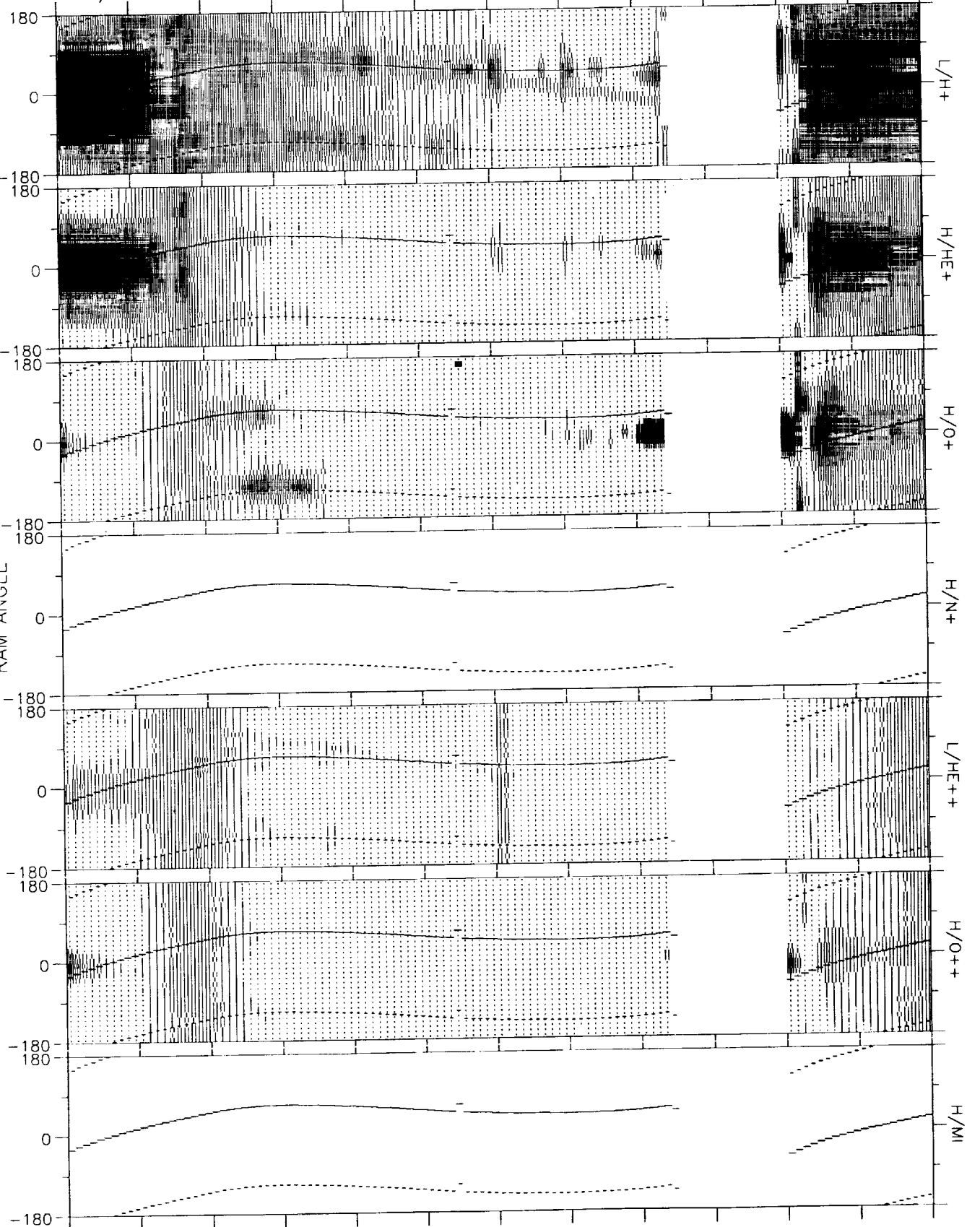
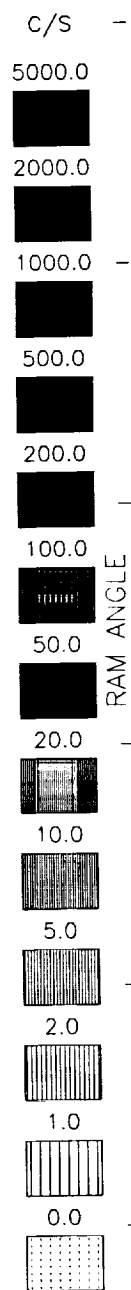
82/040 09-FEB 0515:00 - 1315:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0555	0635	0715	0755	0000	0000	0000	1035	1115	1155	1235	DEGS
RE	3.9	4.4	4.6	4.6	0.0	0.0	0.0	1.5	1.5	2.8	3.7	HHMM
L	4.7	6.8	9.7	14.3	0.0	0.0	0.0	2.0	6.6	3.0	3.7	RE
MLT	1.3	1.3	1.2	0.9	0.0	0.0	0.0	13.9	2.8	1.6	1.3	
MLAT	23.00	35.72	46.04	55.46	0.00	0.00	0.00	31.16	*****	*****	5.60	HRS
INVLAT	62.5	67.4	71.2	74.7	0.0	0.0	0.0	45.3	67.0	54.5	58.8	DEGS

DE RIMS SPIN SUMMARY
SPINRADIAL.ALL (V1.0)
Wed Sep 8 11:08:00 1993

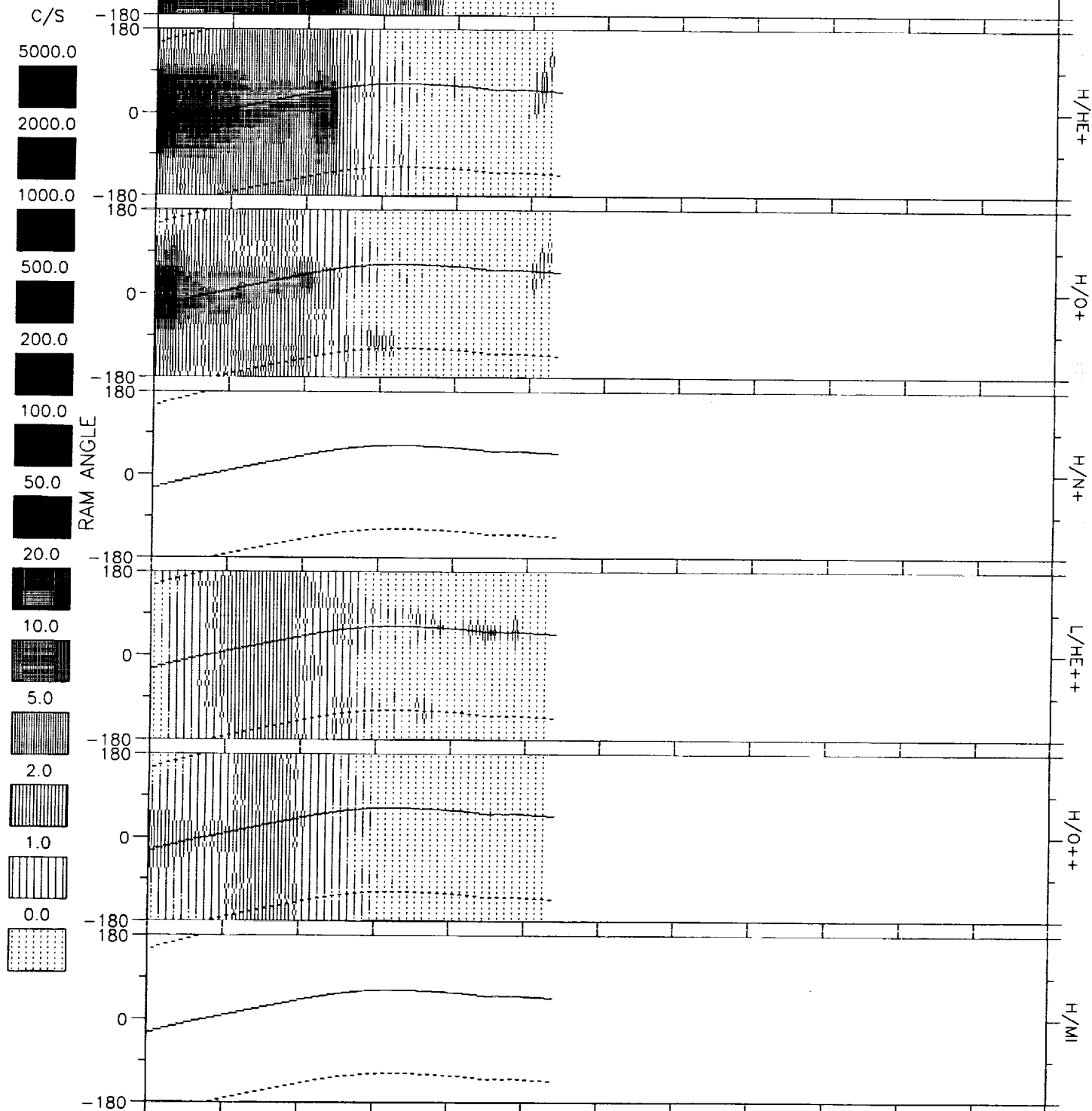
82/040 09-FEB 1130:00 - 1930:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1210	1250	1330	1410	1450	1530	1610	1650	0000	1810	1850	DEGS
RE	3.2	4.0	4.5	4.7	4.6	4.3	3.7	2.7	0.0	1.7	2.9	HHMM
L	3.2	4.1	5.0	6.1	7.5	10.1	17.9	100.0	0.0	12.6	3.3	RE
MLT	1.4	1.2	1.0	0.9	0.8	0.7	0.5	23.3	0.0	1.1	1.1	HRS
MLAT	-4.60	10.39	20.80	29.68	38.52	48.58	61.81	83.04	0.00	****	****	DEGS
INVLAT	56.1	60.3	63.5	66.2	68.7	71.6	76.3	86.5	0.0	73.6	56.7	

DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Wed Sep 8 11:10:41 1993

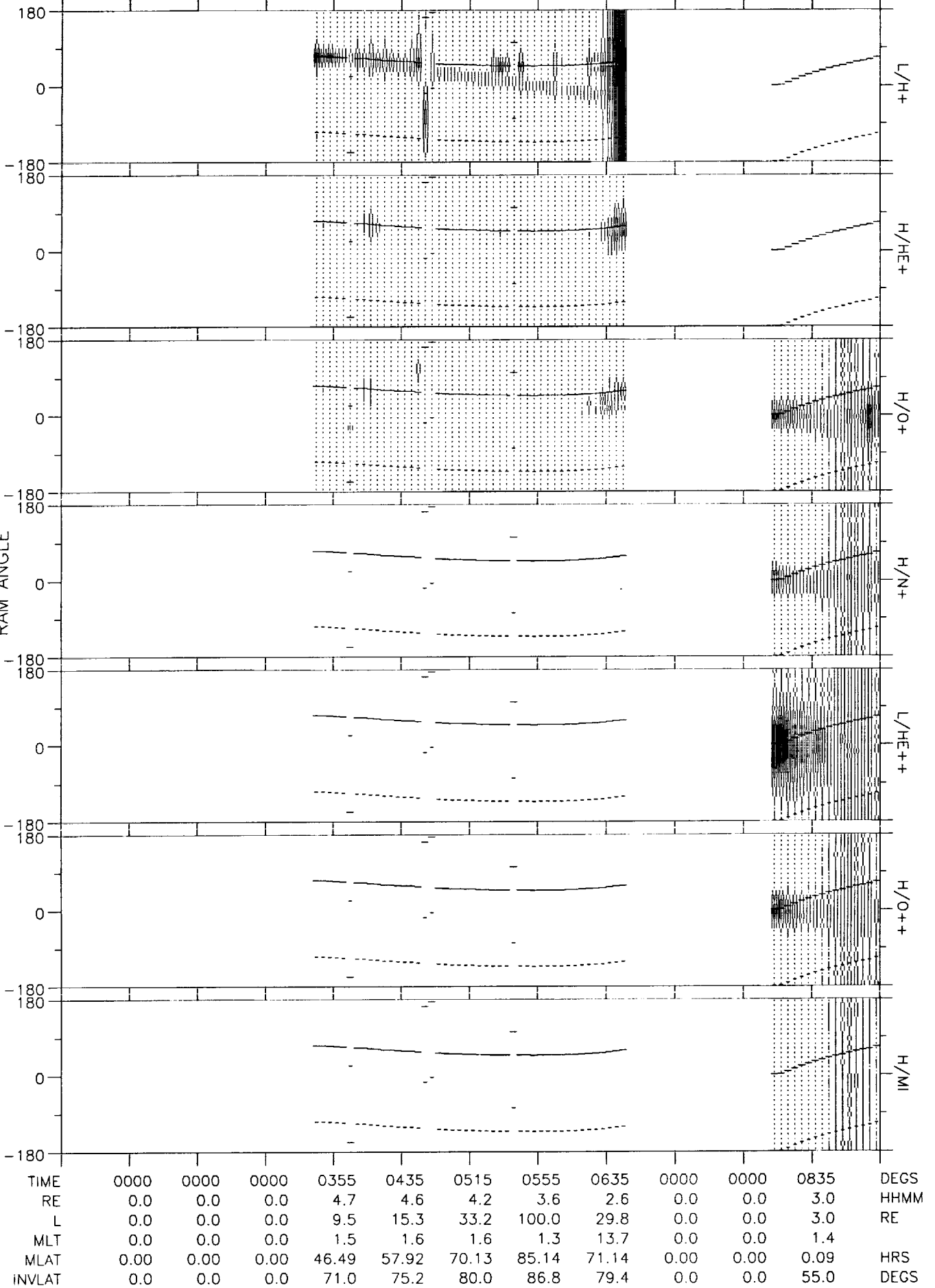
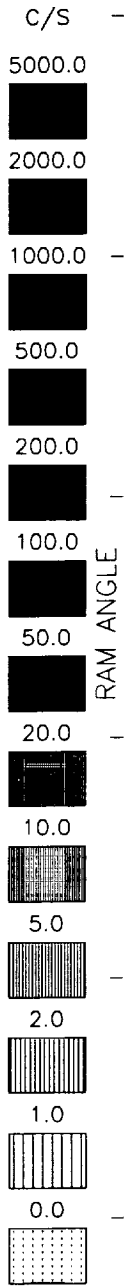
82/040 09-FEB 1830:00 - 0230:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1910	1950	2030	2110	2150	0000	0000	0000	0000	0000	0000	DEGS
RE	3.4	4.1	4.5	4.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	3.5	4.2	5.1	6.3	8.3	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	1.1	1.2	1.3	1.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	*****	5.83	18.70	30.40	42.16	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	57.5	60.6	63.6	66.5	69.7	0.0	0.0	0.0	0.0	0.0	0.0	DEGS

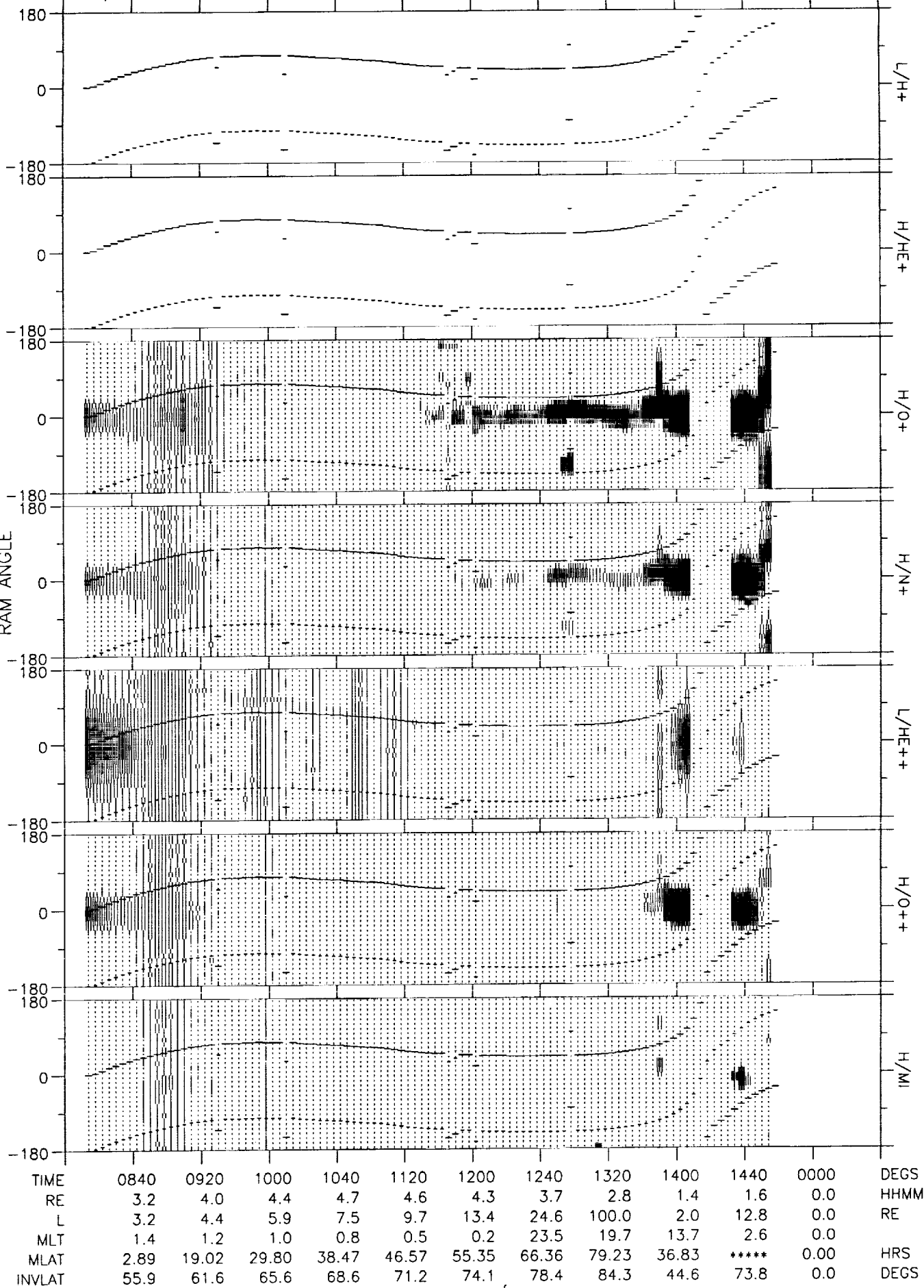
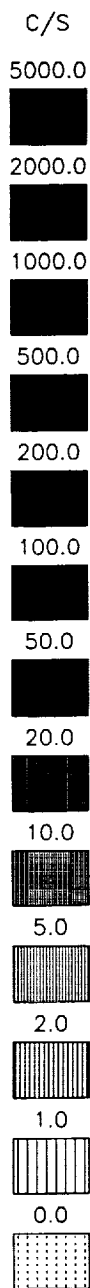
DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Wed Sep 8 11:12:37 1993

82/041 10-FEB 0115:00 - 0915:00 HEAD= RL RPA= 0 to 1000 BIAS= A



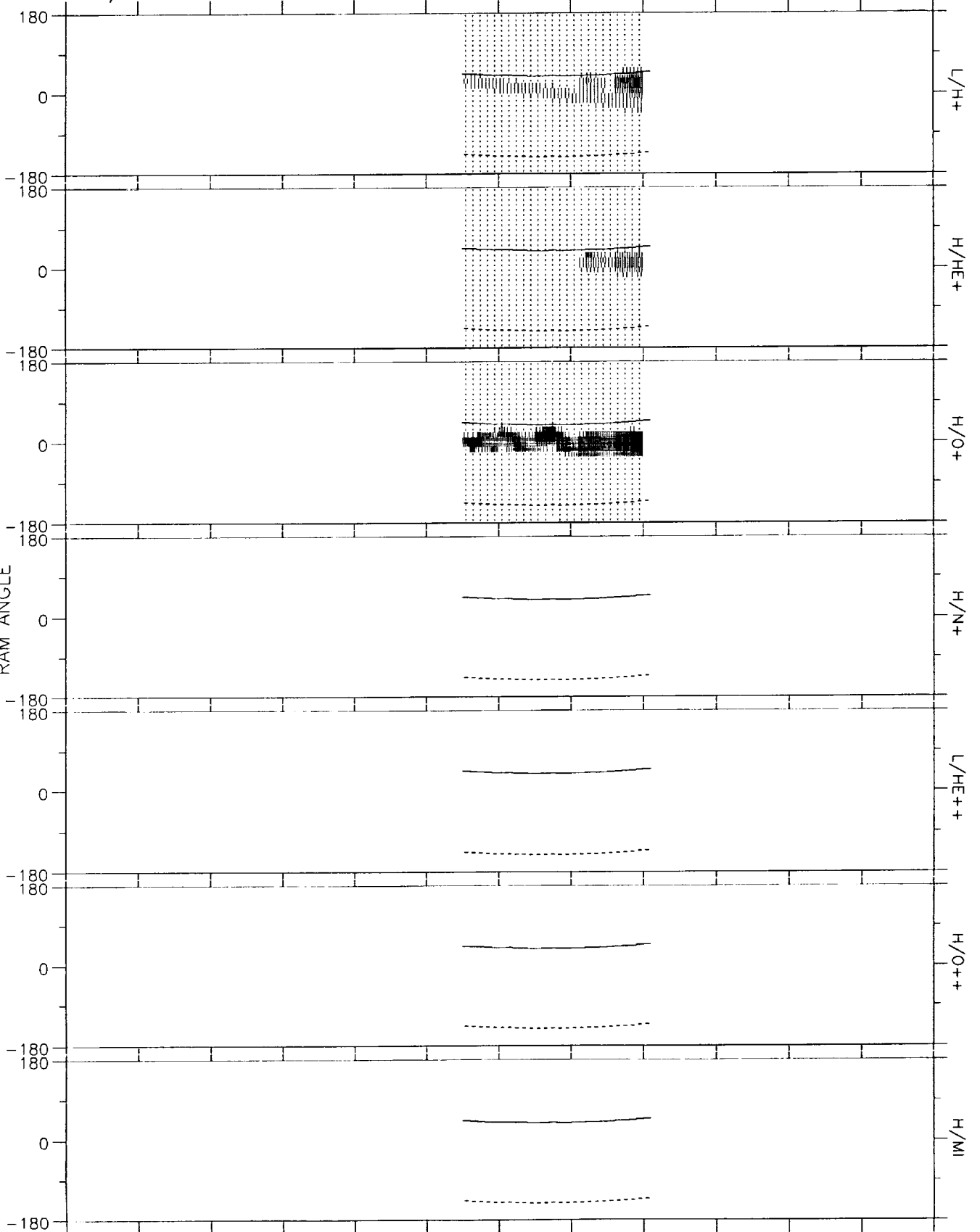
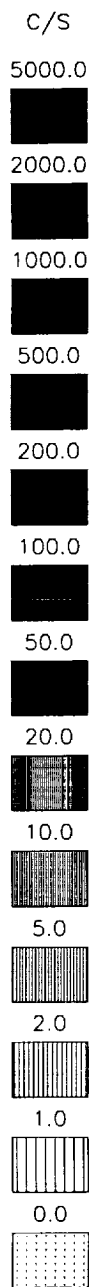
DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Wed Sep 8 11:14:12 1993

82/041 10-FEB 0800:00 - 1600:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Wed Sep 8 11:16:24 1993

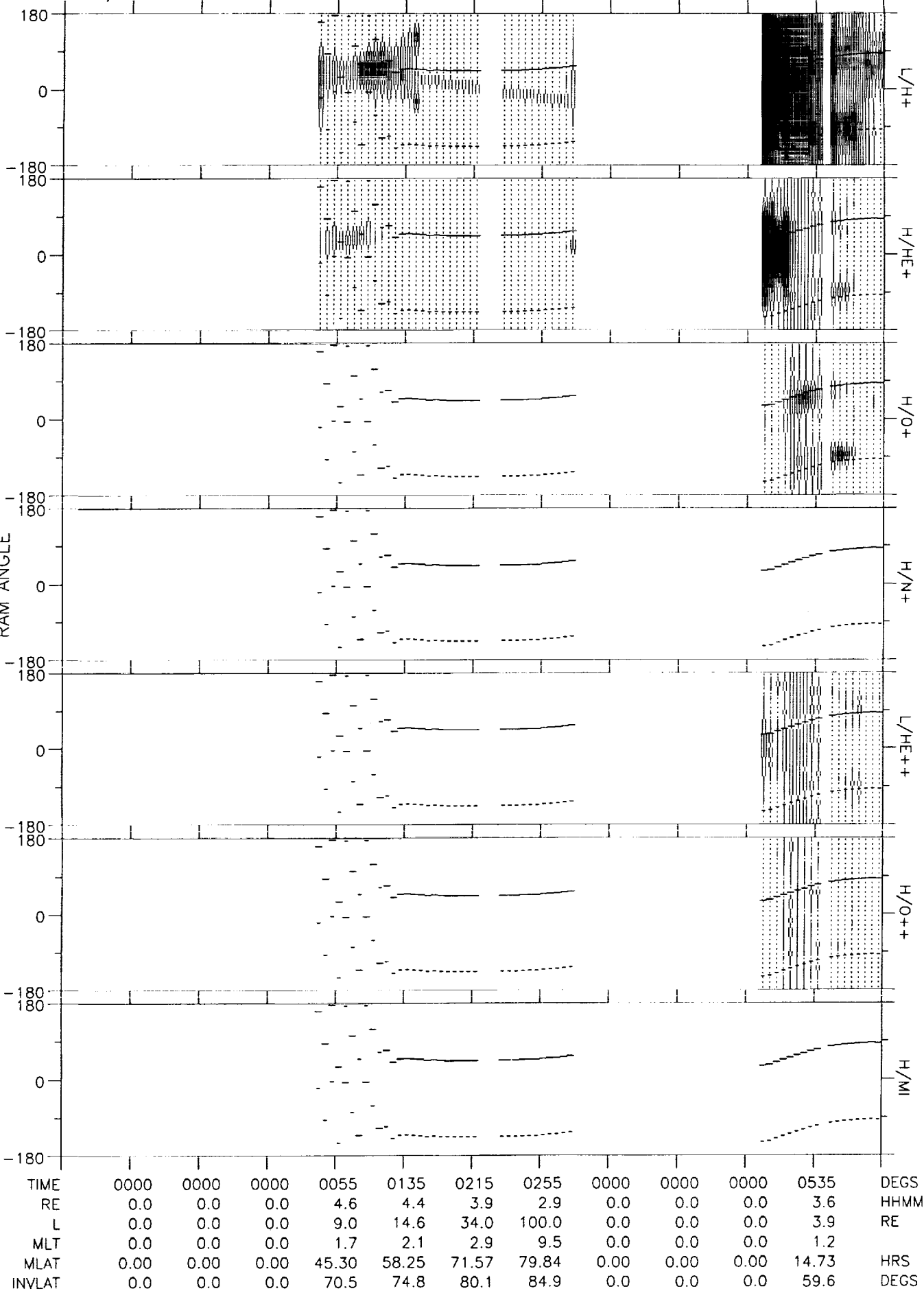
82/041 10-FEB 1500:00 - 2300:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	1900	1940	2020	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	4.2	3.5	2.5	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	10.1	20.5	-0.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	1.3	1.8	7.0	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	48.83	64.30	83.39	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	71.7	77.2	-0.0	0.0	0.0	0.0	DEGS

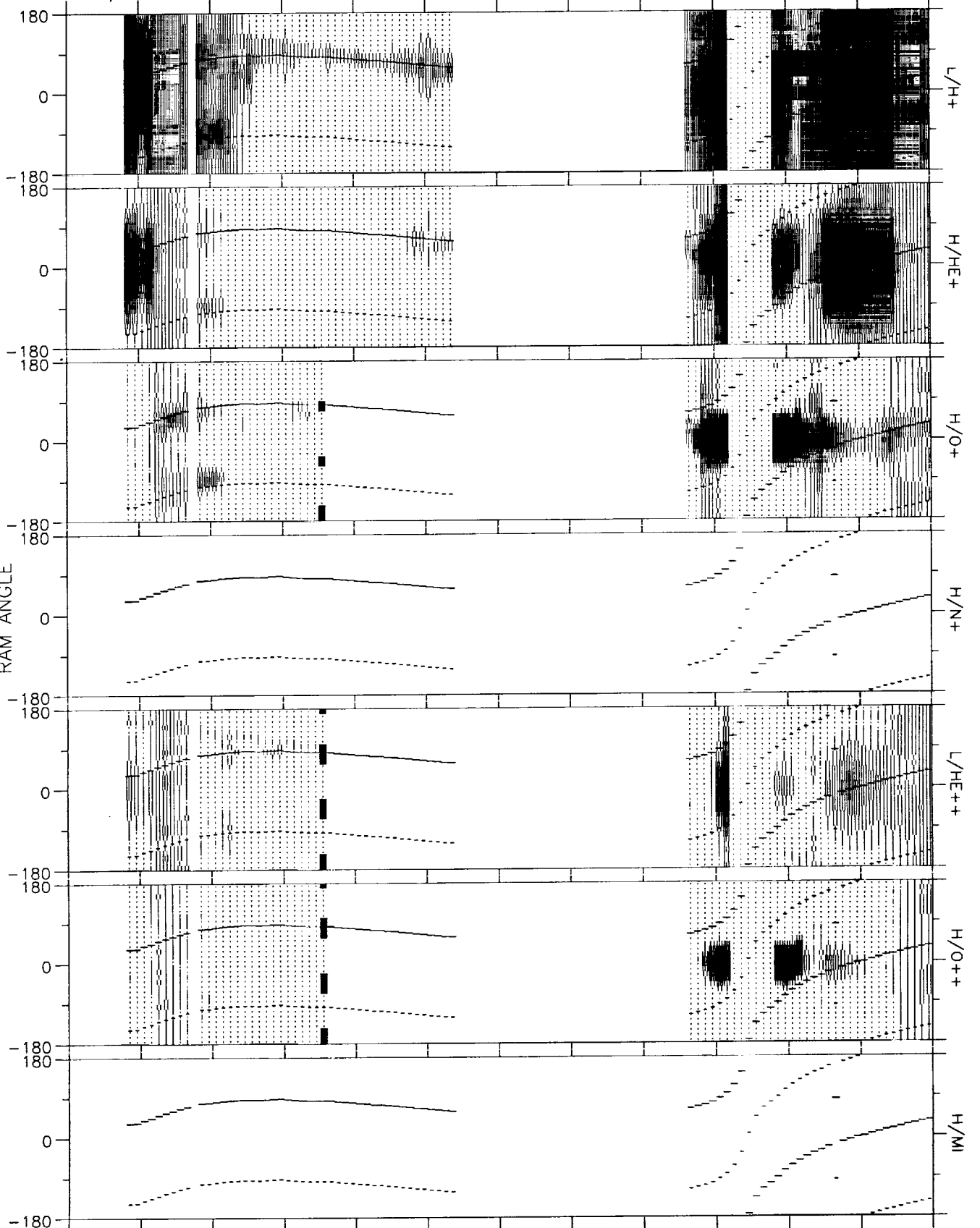
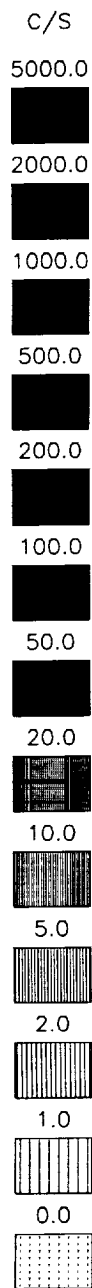
DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Wed Sep 8 11:17:42 1993

82/041 10-FEB 2215:00 - 0615:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Wed Sep 8 11:36:16 1993

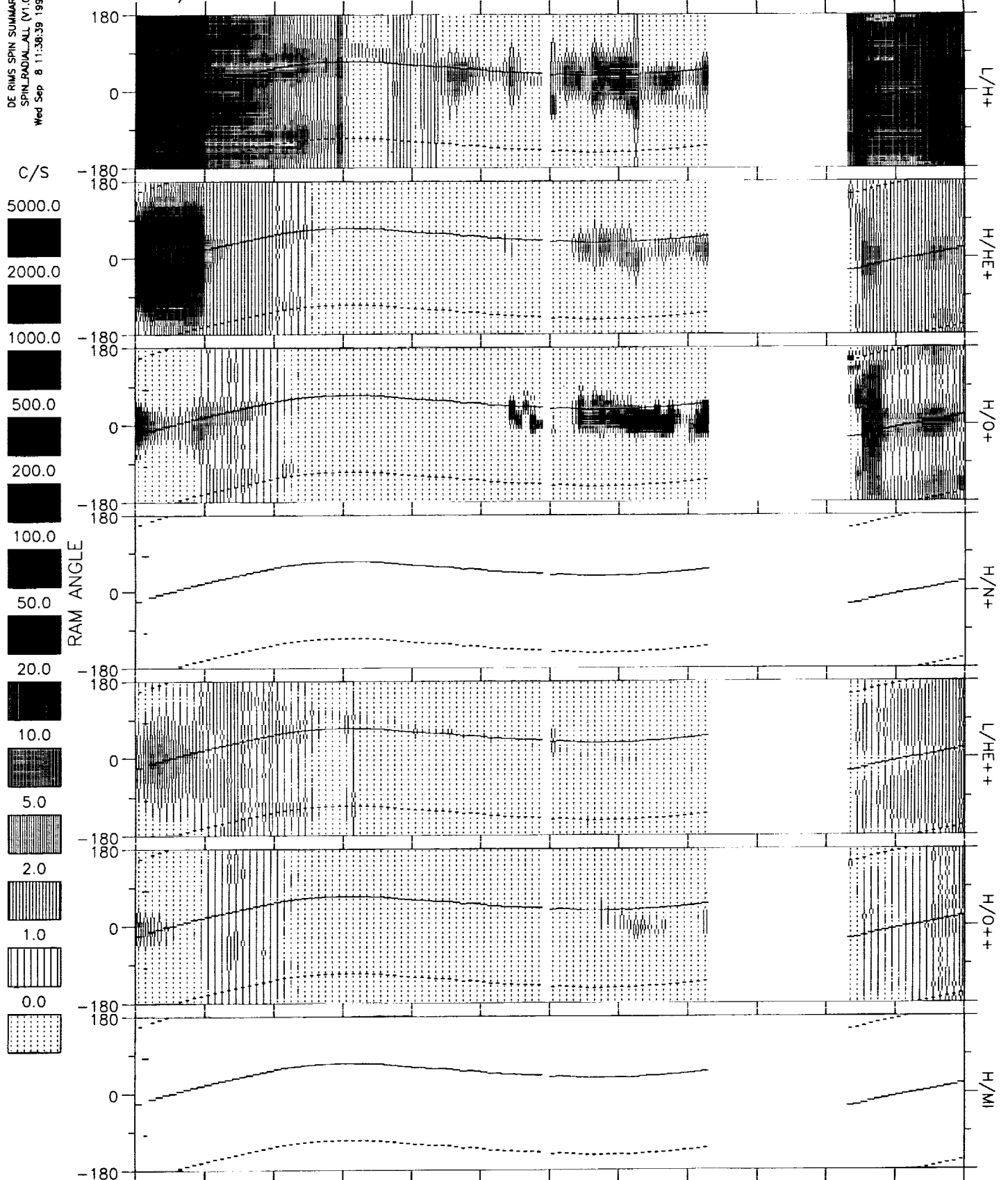
82/042 11-FEB 0430:00 - 1230:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0510	0550	0630	0710	0750	0000	0000	0000	1030	1110	1150	DEGS
RE	3.1	3.9	4.4	4.6	4.6	0.0	0.0	0.0	1.5	1.5	2.8	HHMM
L	3.2	4.7	6.6	9.4	13.8	0.0	0.0	0.0	2.1	7.3	3.0	RE
MLT	1.1	1.2	1.1	1.0	0.8	0.0	0.0	0.0	13.8	2.8	1.4	
MLAT	3.74	22.20	34.92	45.23	54.62	0.00	0.00	0.00	33.21	*****	*****	HRS
INVLAT	55.9	62.4	67.2	71.0	74.3	0.0	0.0	0.0	46.9	68.3	54.7	DEGS

DE RMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Wed Sep 8 11:38:39 1993

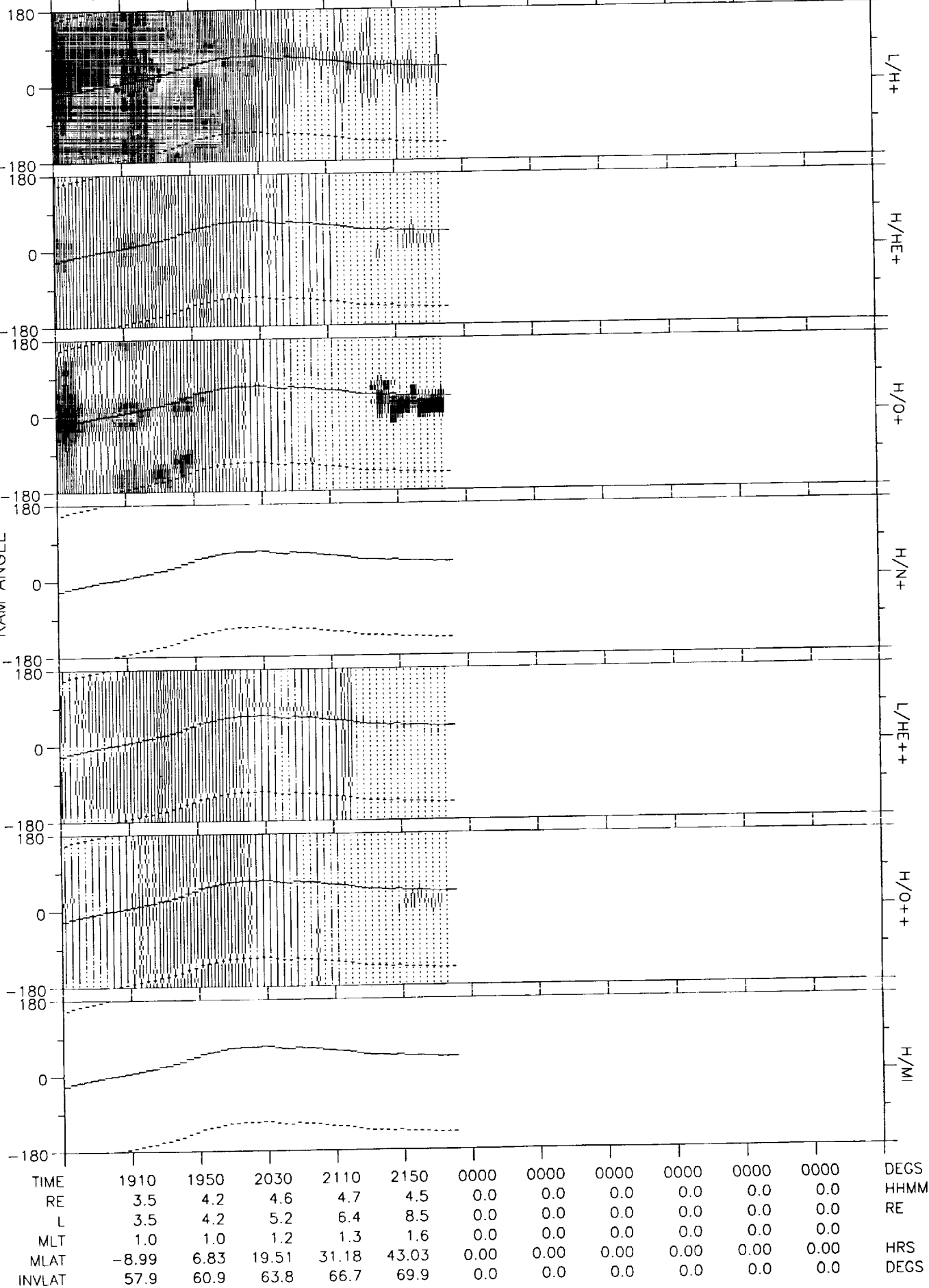
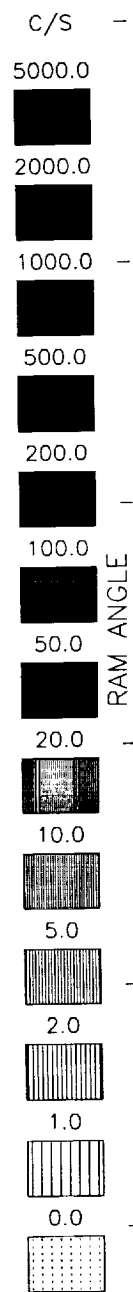
82/042 11-FEB 1130:00 - 1930:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1210	1250	1330	1410	1450	1530	1610	1650	0000	0000	1850	DEGS
RE	3.3	4.1	4.5	4.7	4.6	4.2	3.6	2.6	0.0	0.0	3.1	HHMM
L	3.3	4.2	5.1	6.2	7.6	10.2	19.0	-0.0	0.0	0.0	3.4	RE
MLT	1.3	1.0	0.9	0.8	0.7	0.6	0.4	22.2	0.0	0.0	0.9	
MLAT	-3.27	10.92	21.07	29.89	38.82	49.14	62.97	85.61	0.00	0.00	****	HRS
INVLAT	56.6	60.6	63.7	66.2	68.7	71.7	76.7	-0.0	0.0	0.0	56.9	DEGS

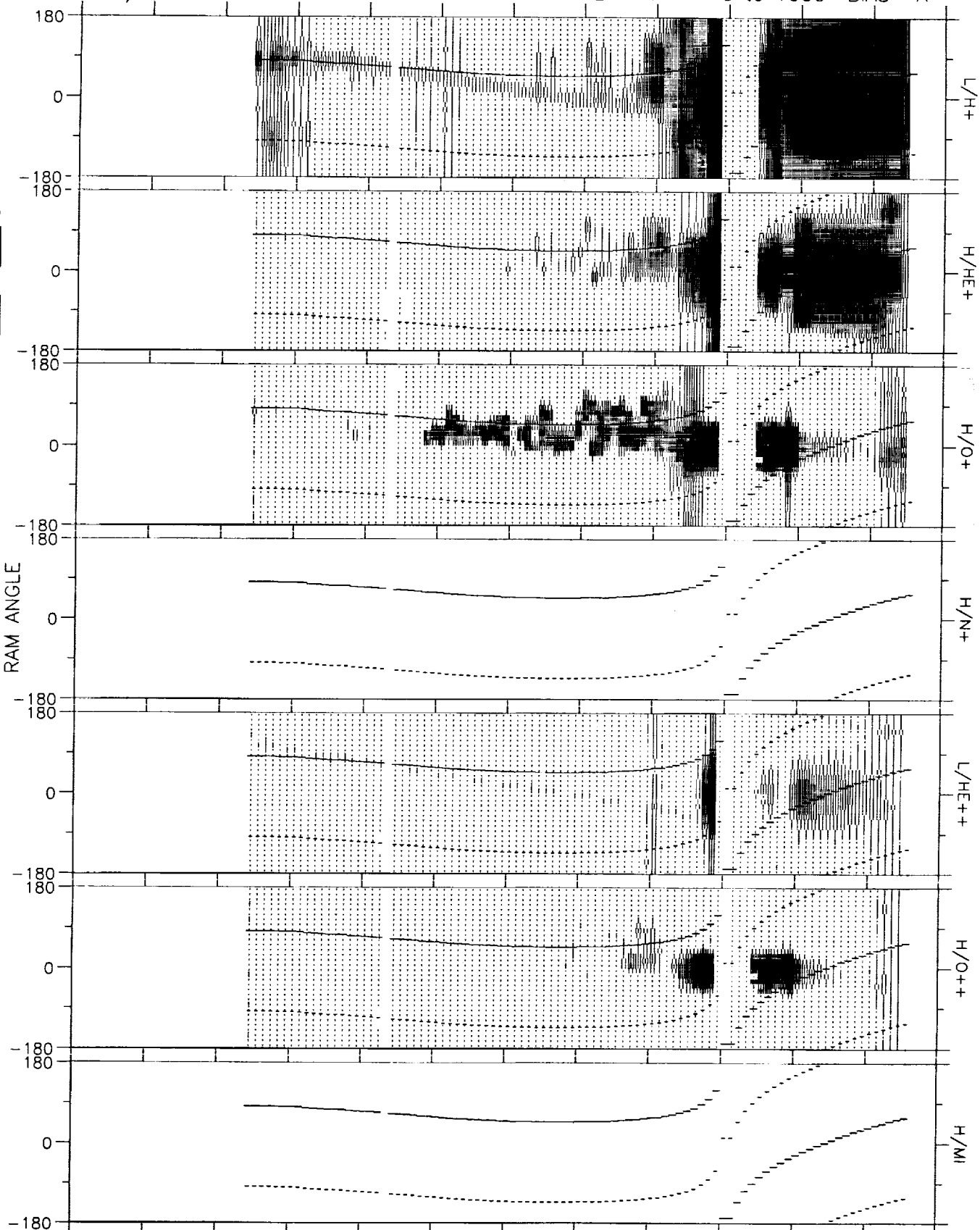
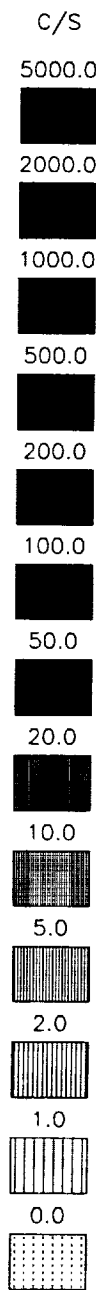
DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Wed Sep 8 11:41:15 1993

82/042 11-FEB 1830:00 - 0230:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Wed Sep 8 11:43:11 1993

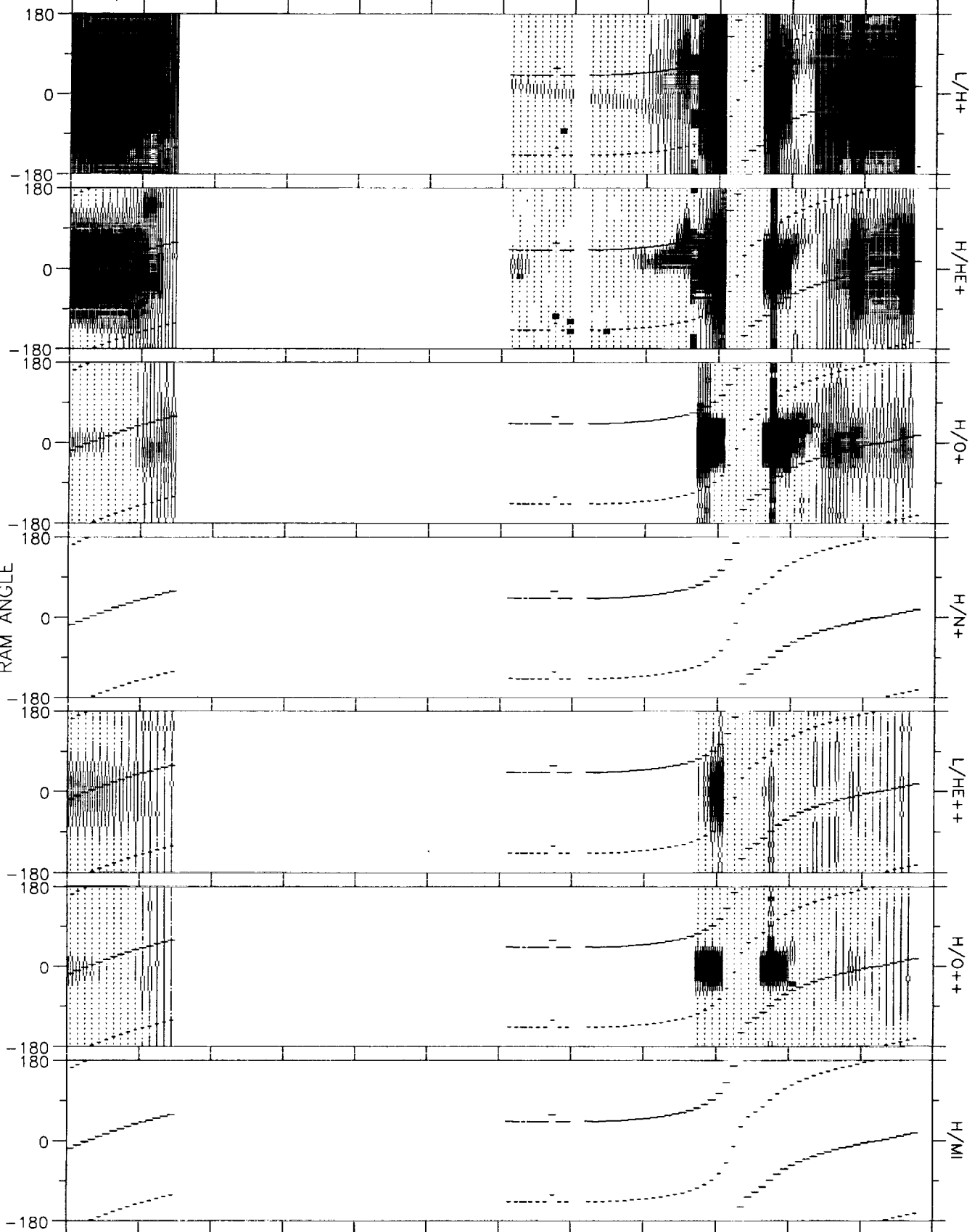
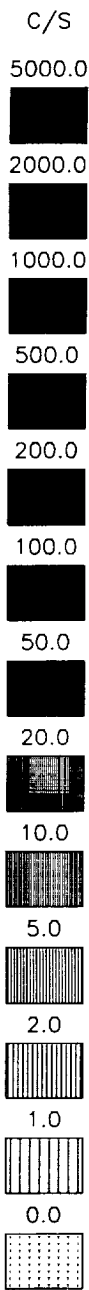
82/043 12-FEB 0115:00 - 0915:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0315	0355	0435	0515	0555	0635	0715	0755	0835	DEGS
RE	0.0	0.0	4.5	4.7	4.6	4.2	3.5	2.5	1.2	1.9	3.1	HHMM
L	0.0	0.0	6.6	9.7	15.9	35.6	-0.0	20.5	1.1	2.7	3.2	RE
MLT	0.0	0.0	1.2	1.4	1.4	1.4	0.7	13.6	13.1	1.5	1.2	
MLAT	0.00	0.00	35.46	47.21	58.64	71.00	86.48	67.91	*****	*****	1.84	HRS
INVLAT	0.0	0.0	67.2	71.3	75.5	80.3	-0.0	77.2	20.3	52.8	55.8	DEGS

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Wed Sep 8 11:45:44 1993

82/043 12-FEB 0800:00 - 1600:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0840	0000	0000	0000	0000	0000	0000	1320	1400	1440	1520	DEGS
RE	3.3	0.0	0.0	0.0	0.0	0.0	0.0	2.6	1.3	1.7	3.0	HHMM
L	3.3	0.0	0.0	0.0	0.0	0.0	0.0	90.5	1.4	7.6	3.3	RE
MLT	1.2	0.0	0.0	0.0	0.0	0.0	0.0	18.7	13.4	2.0	1.2	
MLAT	4.43	0.00	0.00	0.00	0.00	0.00	0.00	79.36	24.65	****	****	HRS
INVLAT	56.6	0.0	0.0	0.0	0.0	0.0	0.0	84.0	33.2	68.7	56.7	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Wed Sep 8 11:47:59 1993

82/043 12-FEB 1500:00 - 2300:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

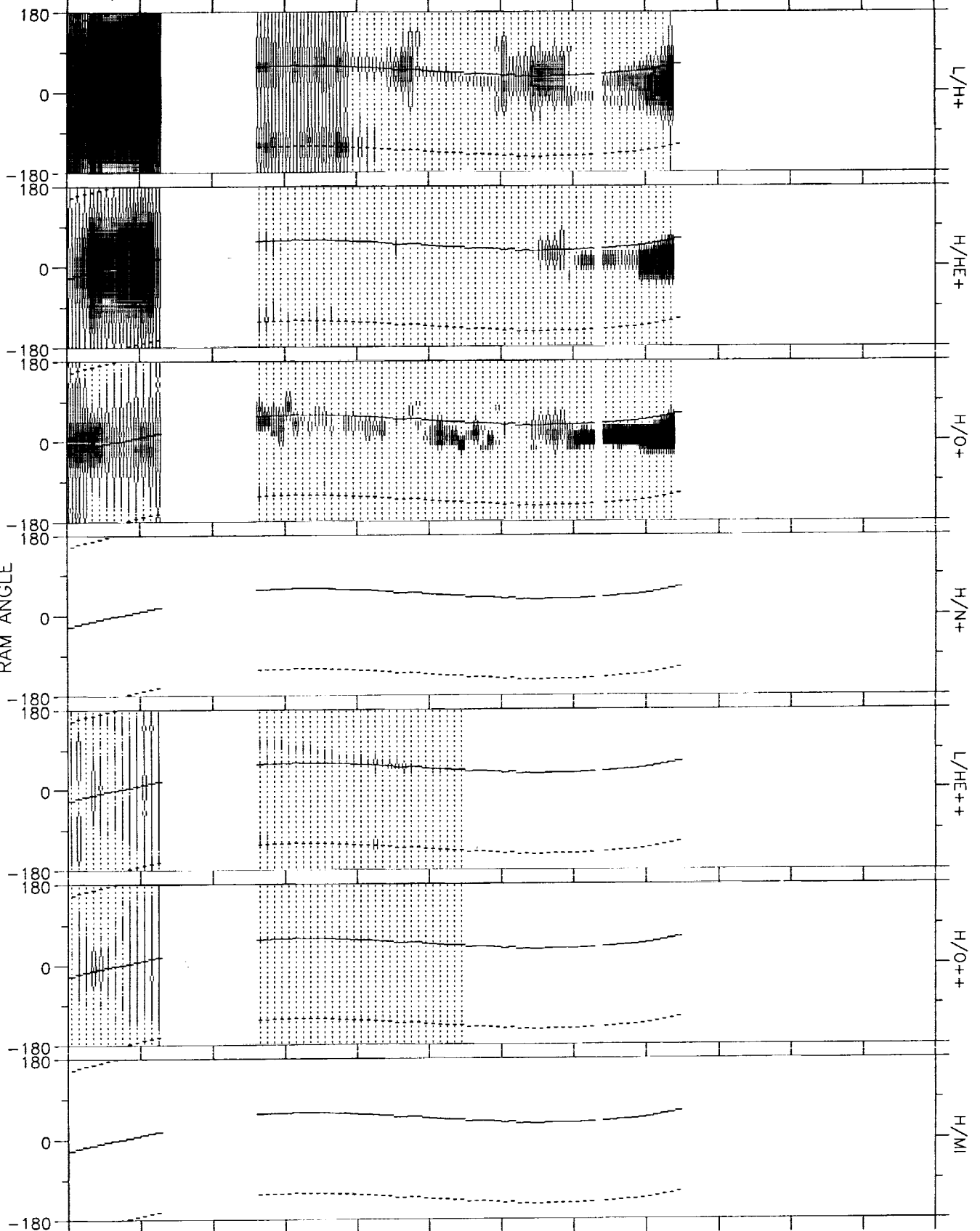
5.0

2.0

1.0

0.0

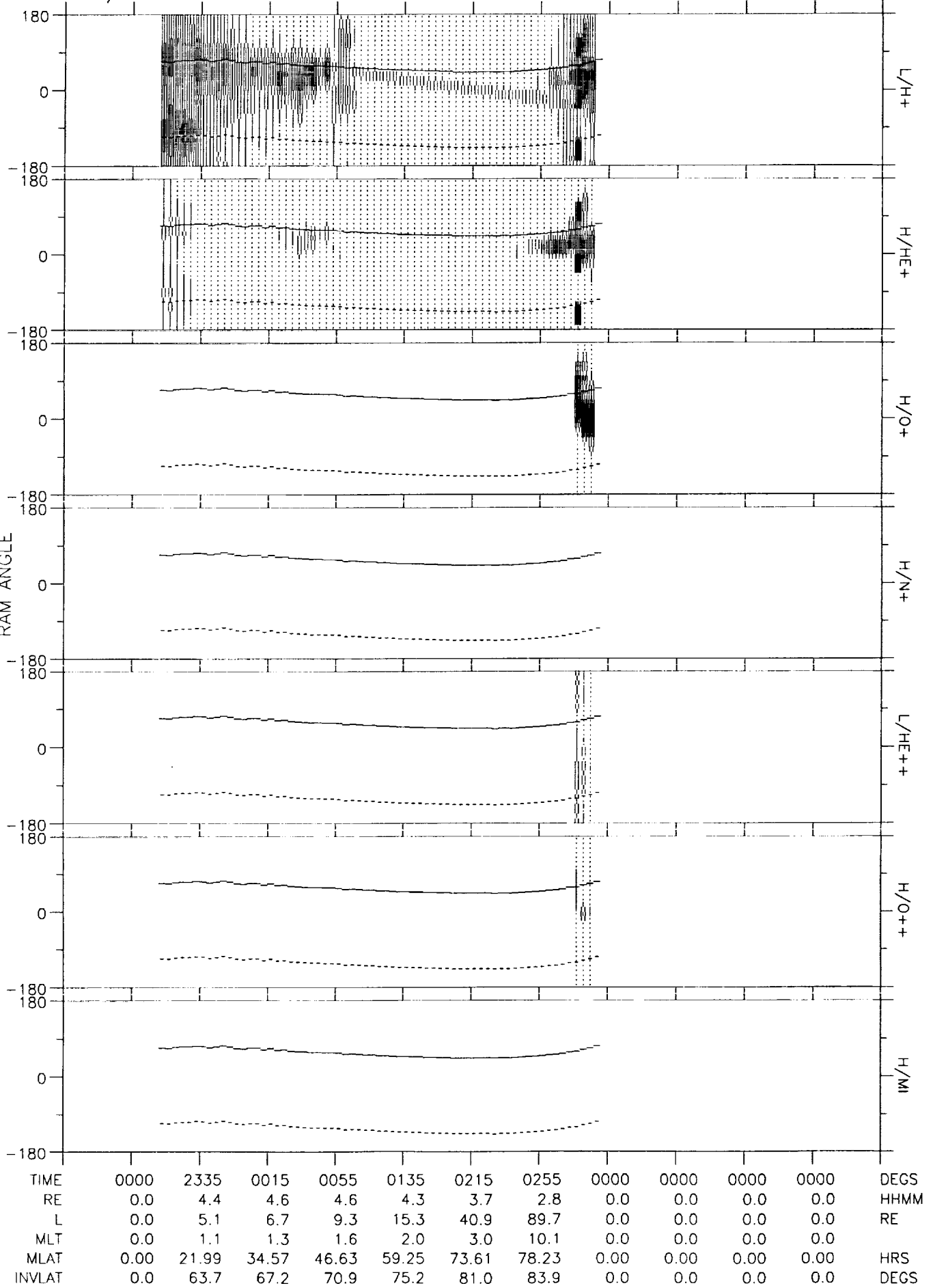
RAM ANGLE



TIME	1540	0000	1700	1740	1820	1900	1940	2020	0000	0000	0000	DEGS
RE	3.5	0.0	4.5	4.7	4.5	4.1	3.4	2.3	0.0	0.0	0.0	HHMM
L	3.5	0.0	4.9	5.9	7.4	10.4	22.6	100.0	0.0	0.0	0.0	RE
MLT	1.1	0.0	0.9	1.0	1.1	1.2	1.8	9.2	0.0	0.0	0.0	
MLAT	-9.18	0.00	16.48	26.79	37.45	49.72	65.83	81.49	0.00	0.00	0.00	HRS
INVLAT	57.7	0.0	63.2	65.7	68.4	71.9	77.8	84.9	0.0	0.0	0.0	DEGS

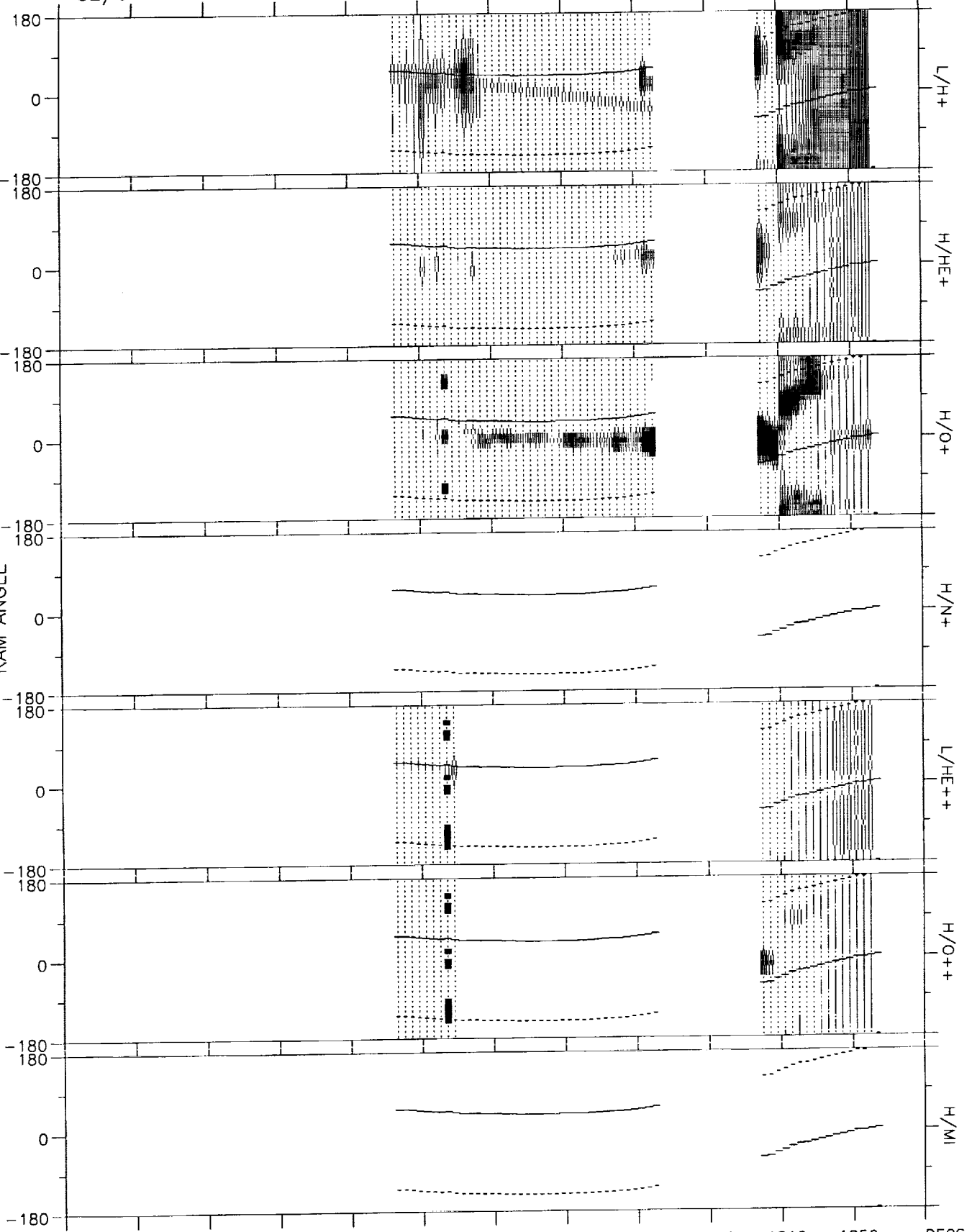
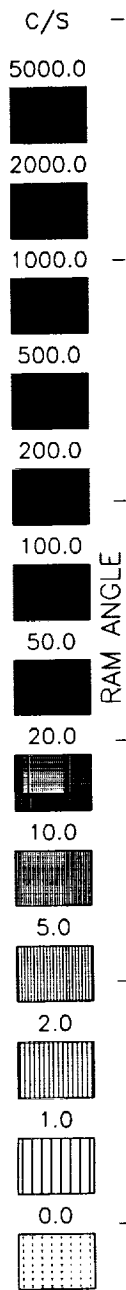
DE RIMS SPIN SUMMARY
SPINRADIAL.ALL (V1.0)
Wed Sep 8 11:49:58 1993

82/043 12-FEB 2215:00 - 0615:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Wed Sep 8 12:10:40 1993

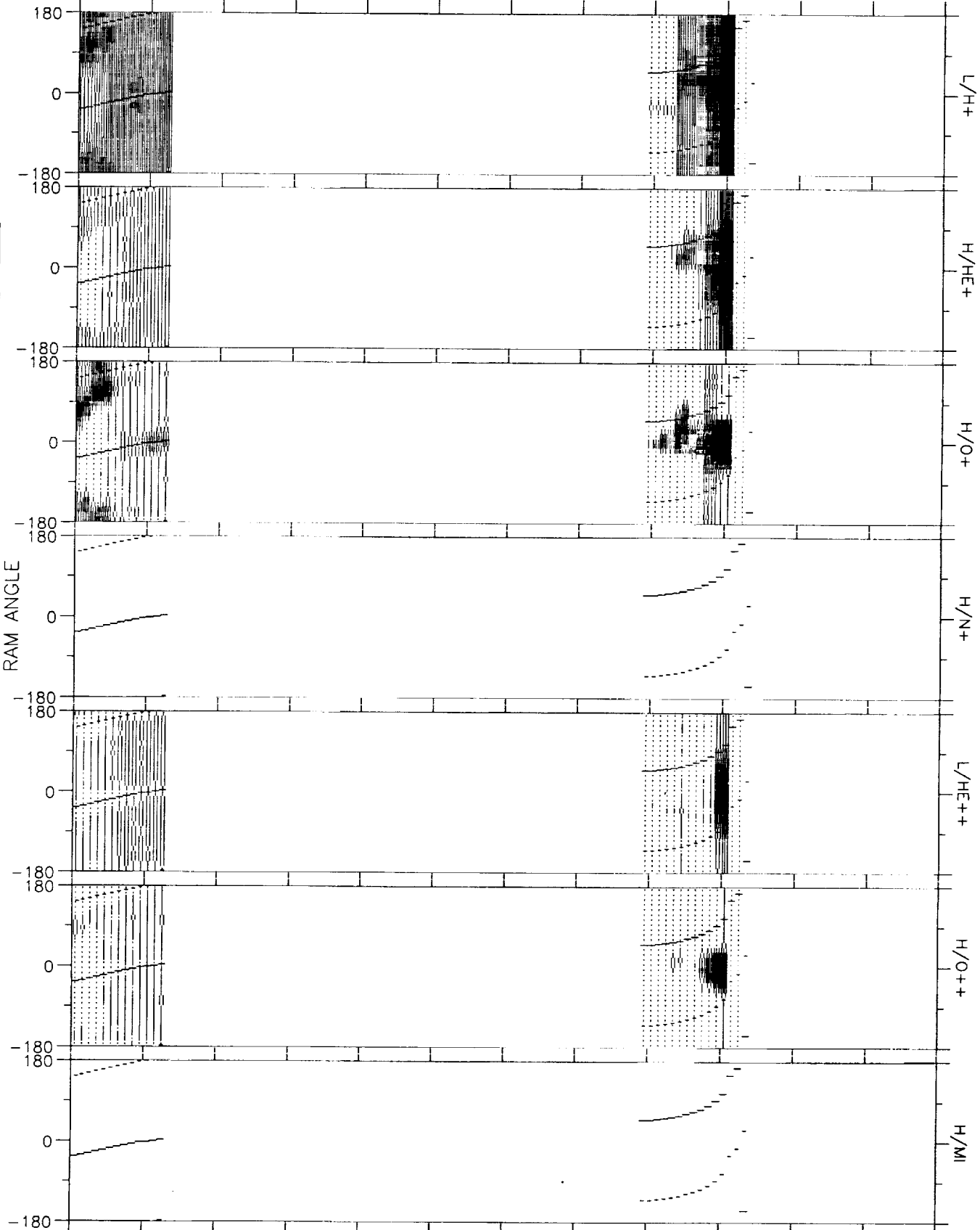
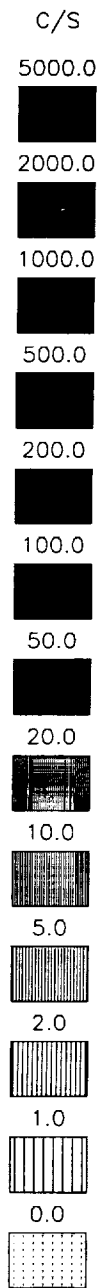
82/044 13-FEB 1130:00 - 1930:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	1450	1530	1610	1650	0000	1810	1850	DEGS
RE	0.0	0.0	0.0	0.0	4.5	4.2	3.5	2.4	0.0	2.0	3.2	HHMM
L	0.0	0.0	0.0	0.0	7.6	10.3	20.4	100.0	0.0	5.6	3.4	RE
MLT	0.0	0.0	0.0	0.0	0.5	0.4	0.3	18.8	0.0	0.8	0.8	
MLAT	0.00	0.00	0.00	0.00	39.15	49.75	64.26	87.25	0.00	****	****	HRS
INVLAT	0.0	0.0	0.0	0.0	68.8	71.9	77.2	87.4	0.0	64.9	57.2	DEGS

DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Wed Sep 8 12:12:17 1993

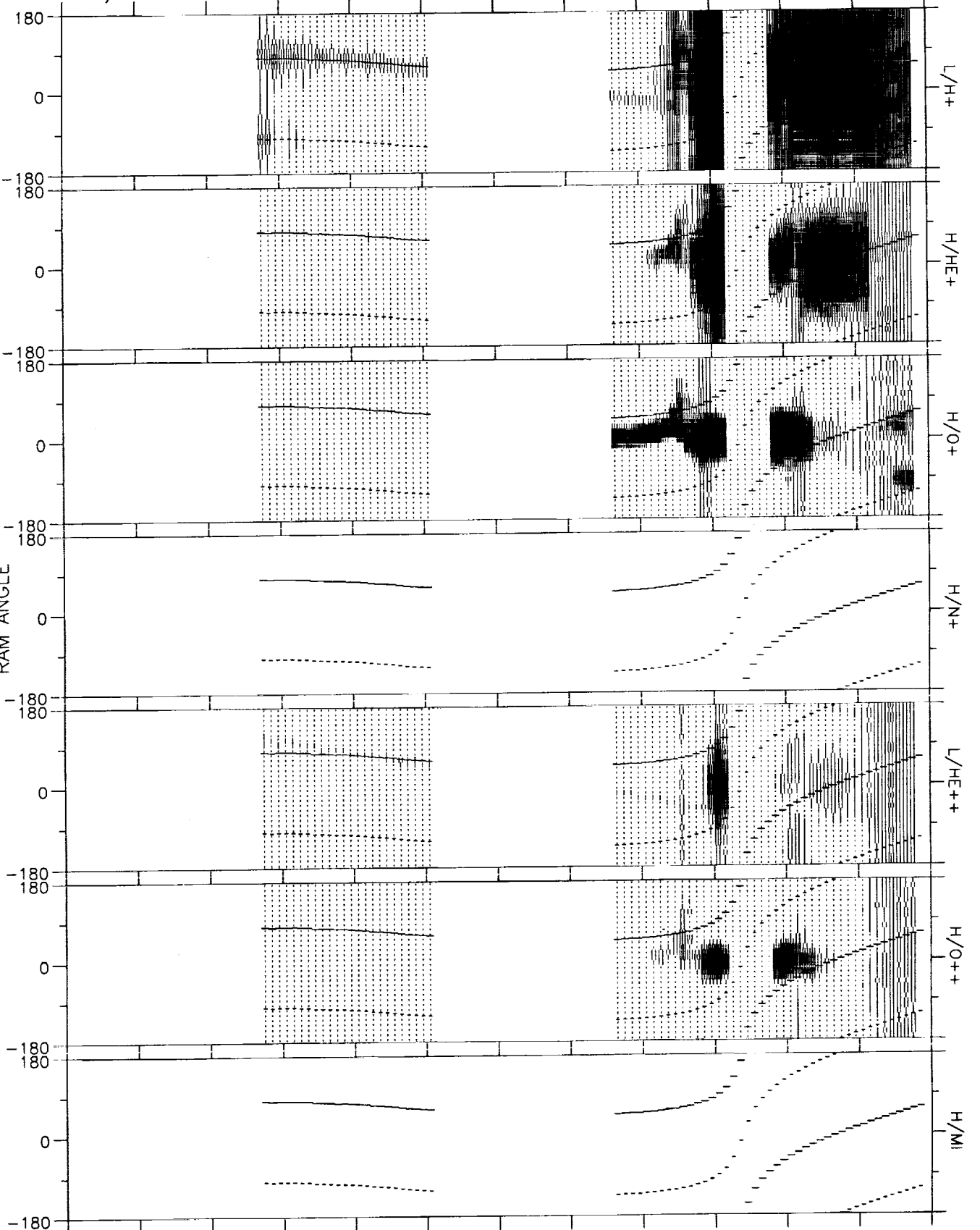
82/044 13-FEB 1815:00 - 0215:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1855	0000	0000	0000	0000	0000	0000	2335	0015	0000	0000	DEGS
RE	3.3	0.0	0.0	0.0	0.0	0.0	0.0	2.6	1.3	0.0	0.0	HHMM
L	3.4	0.0	0.0	0.0	0.0	0.0	0.0	70.8	1.4	0.0	0.0	RE
MLT	0.8	0.0	0.0	0.0	0.0	0.0	0.0	8.5	12.5	0.0	0.0	
MLAT	*****	0.00	0.00	0.00	0.00	0.00	0.00	77.29	18.29	0.00	0.00	HRS
INVLAT	57.4	0.0	0.0	0.0	0.0	0.0	0.0	83.2	33.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Wed Sep 8 12:13:49 1993

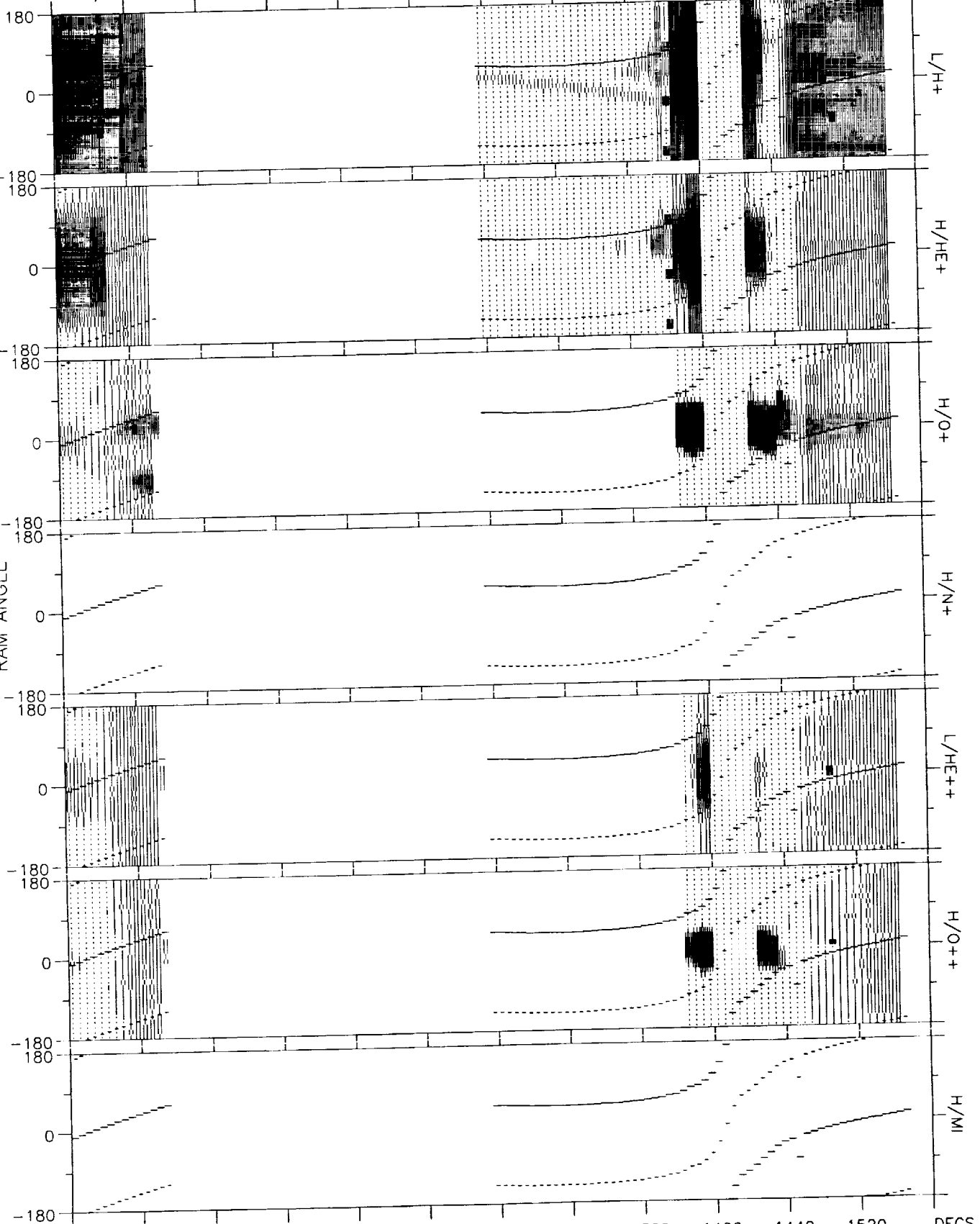
82/045 14-FEB 0100:00 - 0900:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0300	0340	0420	0000	0000	0620	0700	0740	0820	DEGS
RE	0.0	0.0	4.4	4.7	4.6	0.0	0.0	2.8	1.5	1.6	2.9	HHMM
L	0.0	0.0	6.0	8.6	12.8	0.0	0.0	72.2	1.7	4.0	2.9	RE
MLT	0.0	0.0	1.1	1.2	1.2	0.0	0.0	13.6	13.2	1.6	1.2	
MLAT	0.00	0.00	31.67	43.67	53.98	0.00	0.00	77.14	22.57	****	-5.02	HRS
INVLAT	0.0	0.0	65.9	70.1	73.8	0.0	0.0	83.2	40.3	59.9	54.1	DEGS

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Wed Sep 8 12:15:59 1993

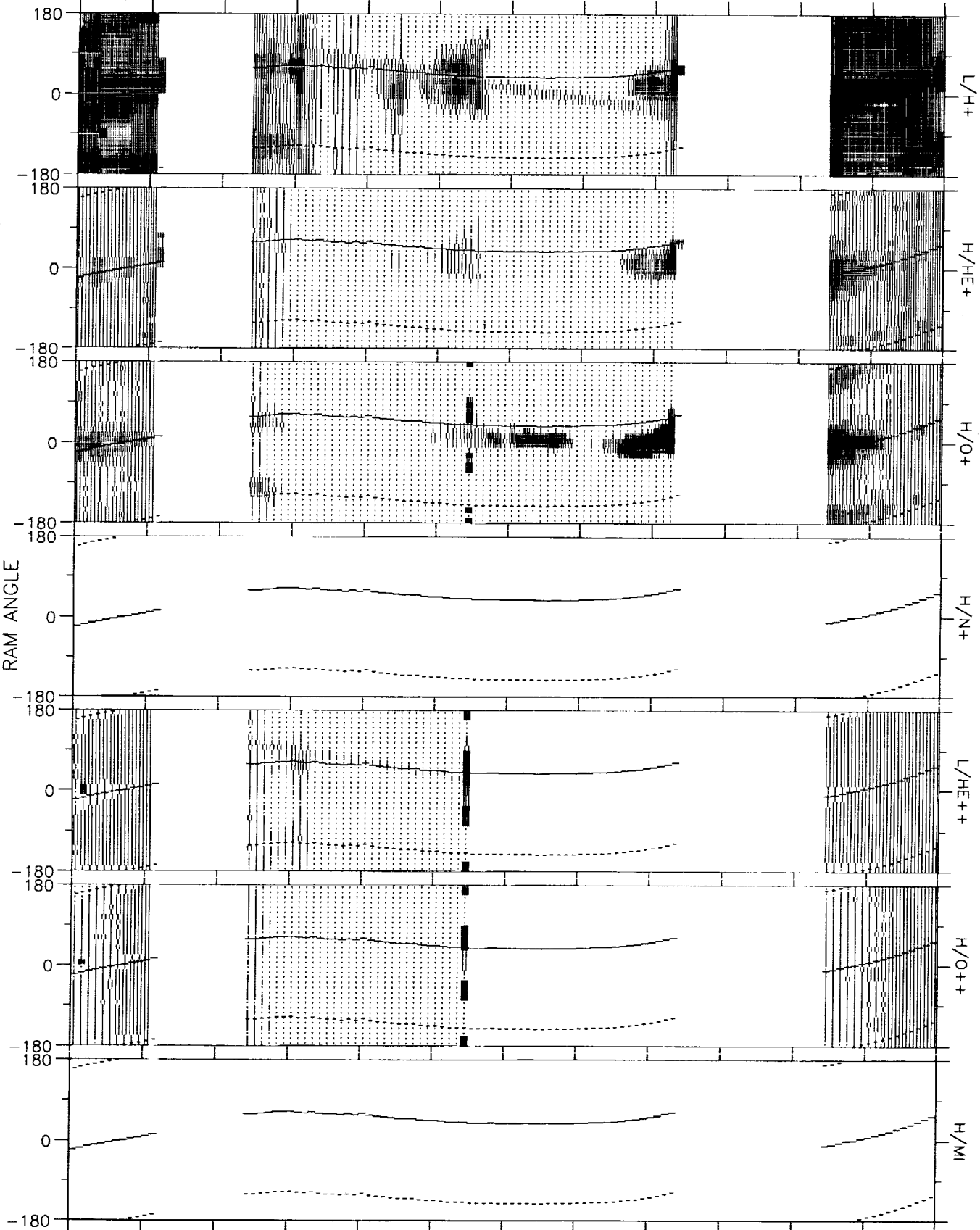
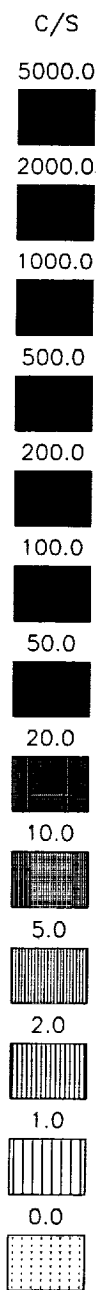
82/045 14-FEB 0800:00 - 1600:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0840	0000	0000	0000	0000	1200	1240	1320	1400	1440	1520	DEGS
RE	3.4	0.0	0.0	0.0	0.0	4.2	3.5	2.5	1.2	1.9	3.1	HHMM
L	3.4	0.0	0.0	0.0	0.0	13.6	27.4	68.3	1.2	5.6	3.4	RE
MLT	1.1	0.0	0.0	0.0	0.0	23.9	23.1	17.6	13.0	1.6	1.0	
MLAT	5.81	0.00	0.00	0.00	0.00	56.04	68.03	78.79	9.33	*****	*****	HRS
INVLAT	57.2	0.0	0.0	0.0	0.0	74.2	79.0	83.0	24.9	65.0	57.0	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Wed Sep 8 12:18:02 1993

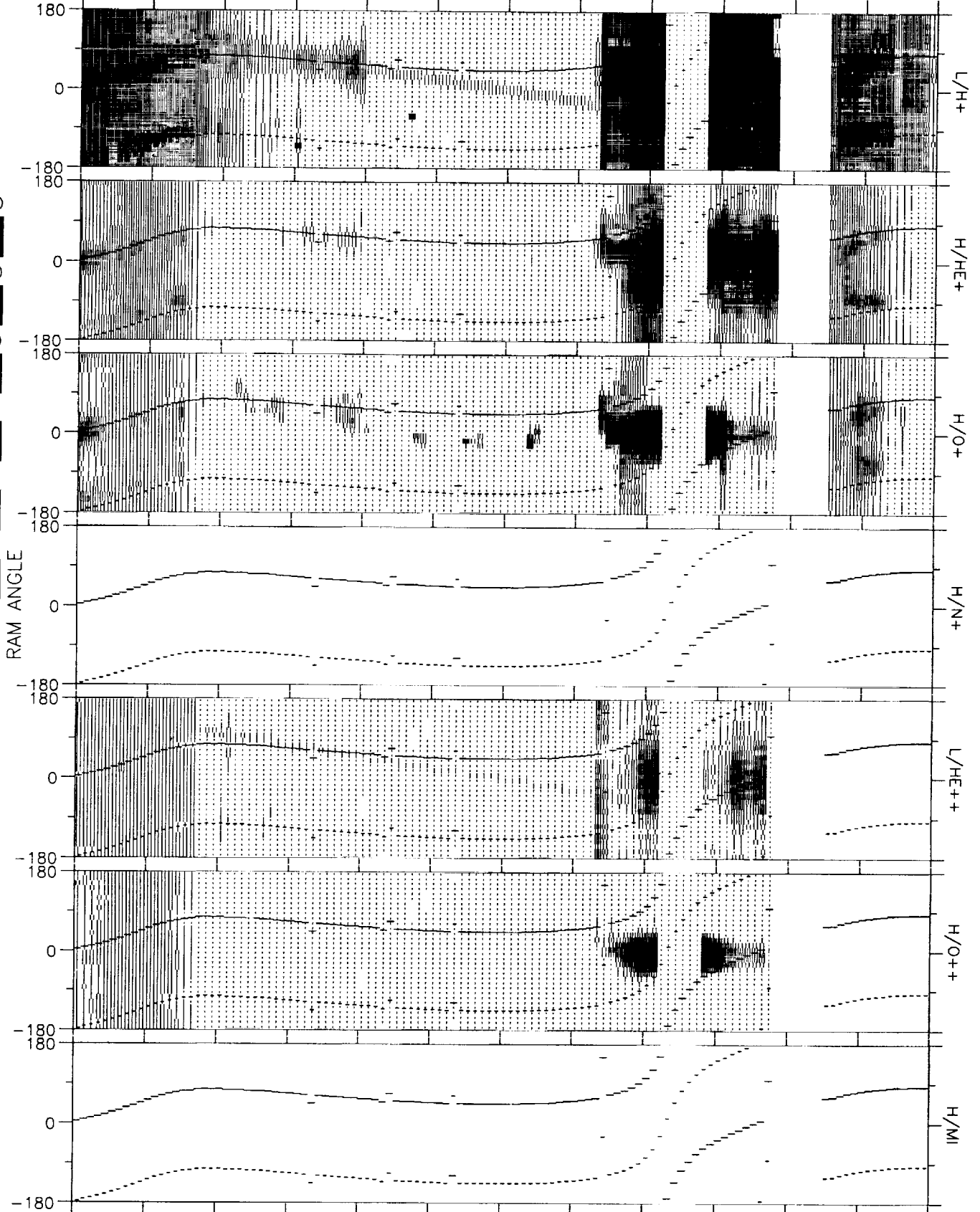
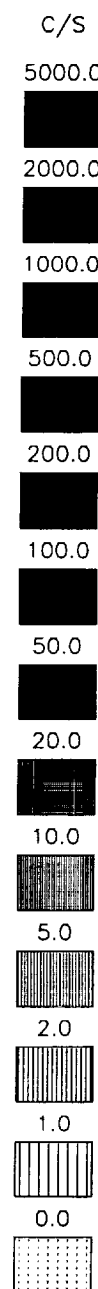
82/045 14-FEB 1500:00 - 2300:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1540	0000	1700	1740	1820	1900	1940	2020	0000	0000	2220	DEGS
RE	3.6	0.0	4.6	4.7	4.5	4.1	3.3	2.2	0.0	0.0	3.3	HHMM
L	3.6	0.0	5.0	6.0	7.5	10.6	25.3	55.3	0.0	0.0	3.4	RE
MLT	0.9	0.0	0.8	0.8	0.9	1.2	1.8	10.2	0.0	0.0	0.6	
MLAT	-7.99	0.00	16.97	27.29	38.08	50.67	67.48	78.11	0.00	0.00	-7.21	HRS
INVLAT	58.0	0.0	63.4	65.8	68.5	72.1	78.5	82.3	0.0	0.0	57.3	DEGS

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Wed Sep 8 12:20:14 1993

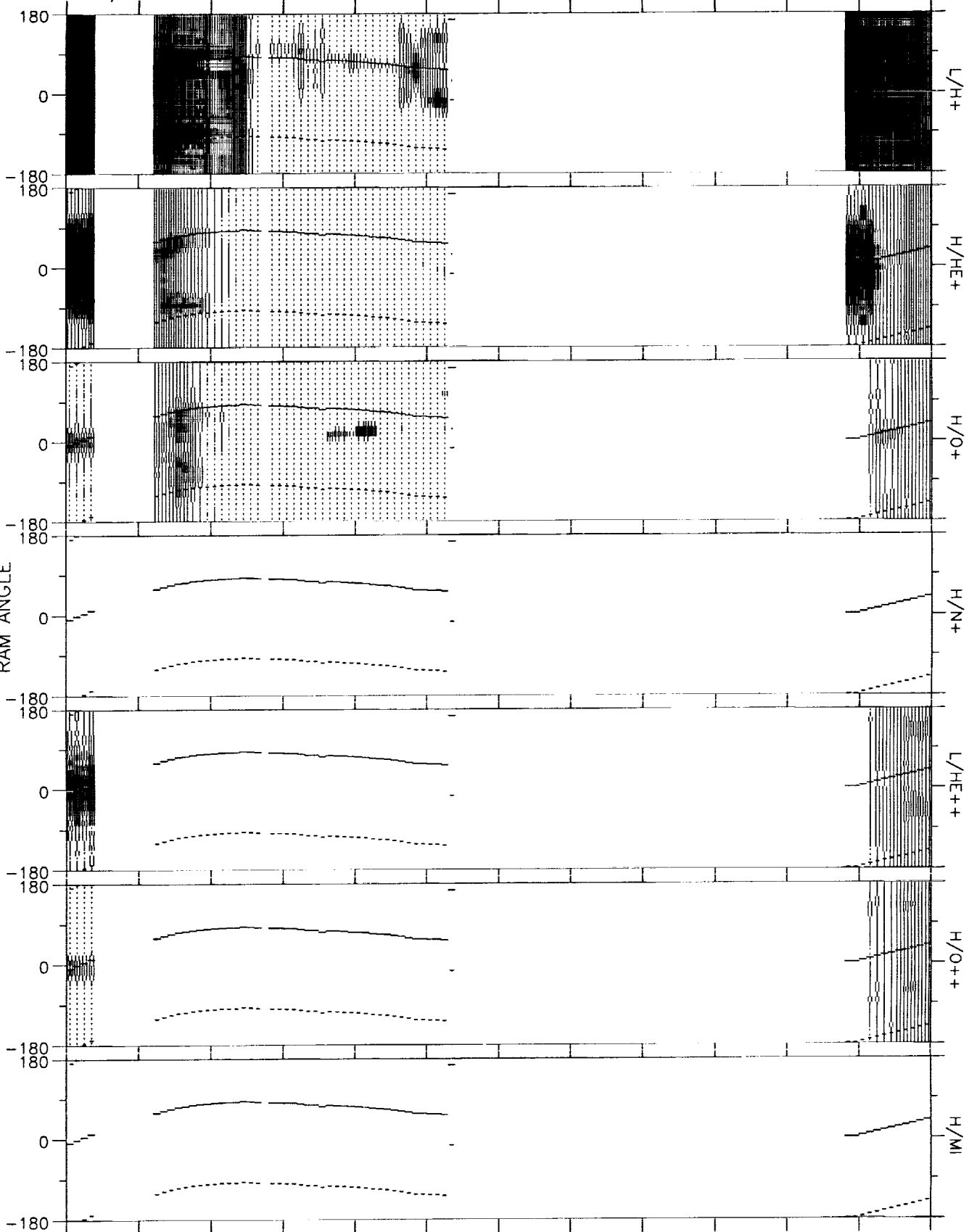
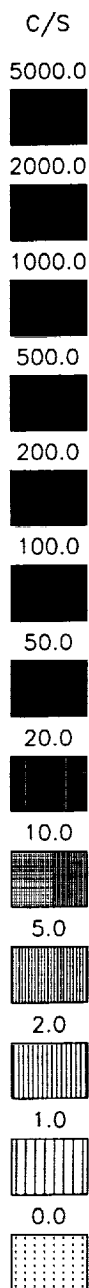
82/045 14-FEB 2215:00 - 0615:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	2255	2335	0015	0055	0135	0215	0255	0335	0415	0000	0535	DEGS
RE	4.0	4.5	4.7	4.6	4.3	3.7	2.7	1.4	1.7	0.0	3.8	HHMM
L	4.1	5.2	6.8	9.6	16.0	47.1	58.8	1.4	3.4	0.0	4.3	RE
MLT	0.8	1.0	1.3	1.5	1.9	3.1	10.6	12.6	0.5	0.0	0.9	
MLAT	8.83	23.02	35.47	47.55	60.35	75.03	75.96	15.97	*****	0.00	18.68	HRS
INVLAT	60.4	64.0	67.5	71.2	75.5	81.6	82.5	33.4	57.1	0.0	61.3	DEGS

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Wed Sep 8 12:23:08 1993

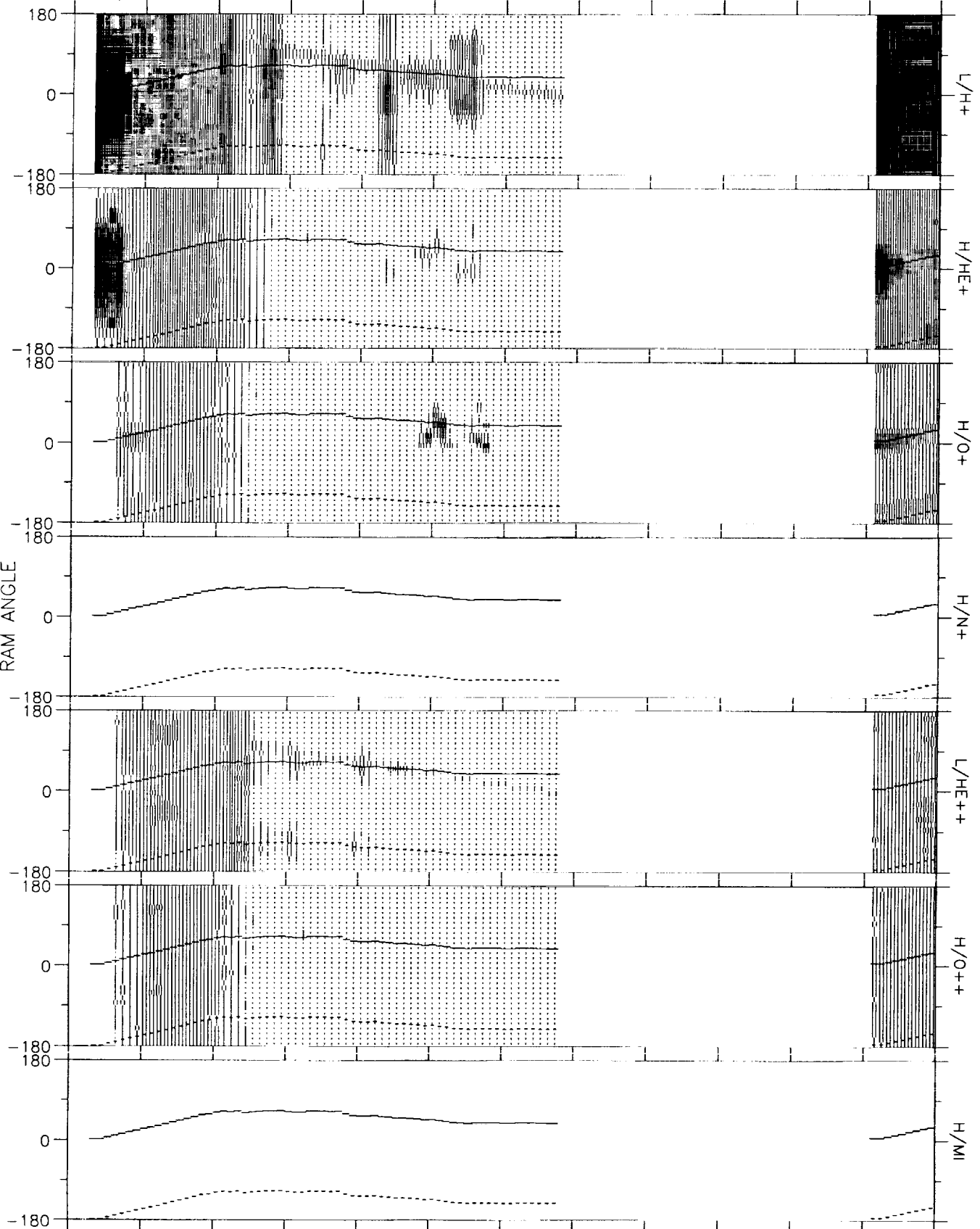
82/046 15-FEB 0430:00 - 1230:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0550	0630	0710	0750	0000	0000	0000	0000	0000	1150	DEGS
RE	0.0	4.1	4.5	4.7	4.6	0.0	0.0	0.0	0.0	0.0	3.1	HHMM
L	0.0	4.9	6.9	9.7	14.0	0.0	0.0	0.0	0.0	0.0	3.1	RE
MLT	0.0	0.9	0.8	0.7	0.4	0.0	0.0	0.0	0.0	0.0	1.1	
MLAT	0.00	24.09	36.02	45.93	55.21	0.00	0.00	0.00	0.00	0.00	*****	HRS
INVLAT	0.0	63.3	67.7	71.2	74.5	0.0	0.0	0.0	0.0	0.0	55.7	DEGS

DE RIMS SPIN SUMMARY
SPIN-RADIAL ALL (V1.0)
Wed Sep 8 12:28:41 1993

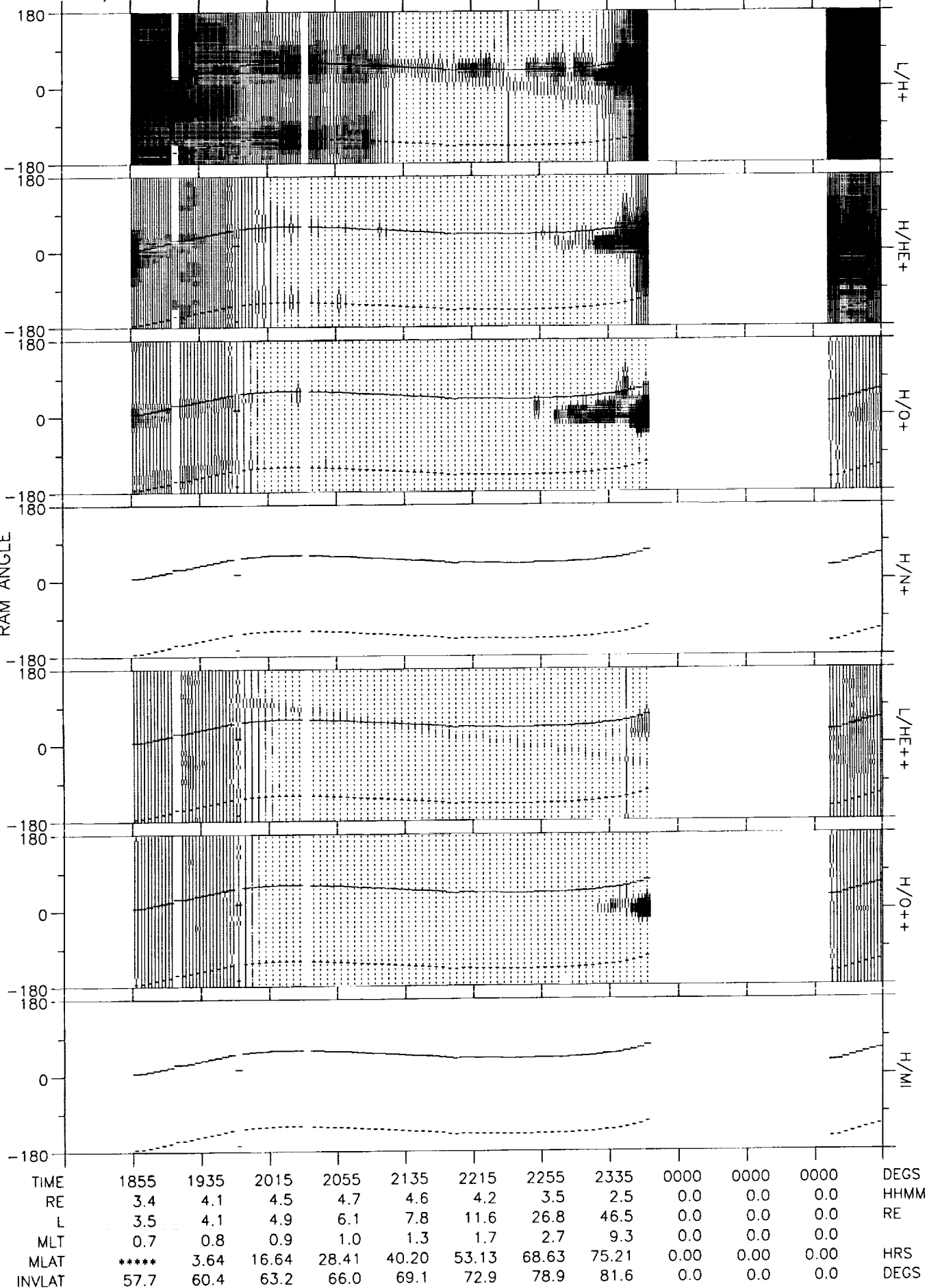
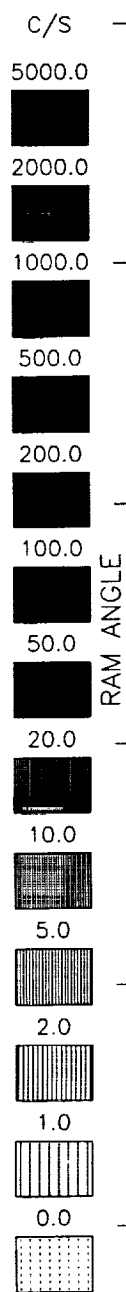
82/046 15-FEB 1130:00 - 1930:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1210	1250	1330	1410	1450	1530	0000	0000	0000	0000	0000	DEGS
RE	3.5	4.2	4.6	4.7	4.5	4.1	0.0	0.0	0.0	0.0	0.0	HHMM
L	3.5	4.3	5.2	6.2	7.7	10.5	0.0	0.0	0.0	0.0	0.0	RE
MLT	1.0	0.8	0.6	0.5	0.4	0.3	0.0	0.0	0.0	0.0	0.0	
MLAT	-1.02	11.85	21.56	30.33	39.49	50.42	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	57.6	61.2	64.0	66.4	68.8	72.0	0.0	0.0	0.0	0.0	0.0	DEGS

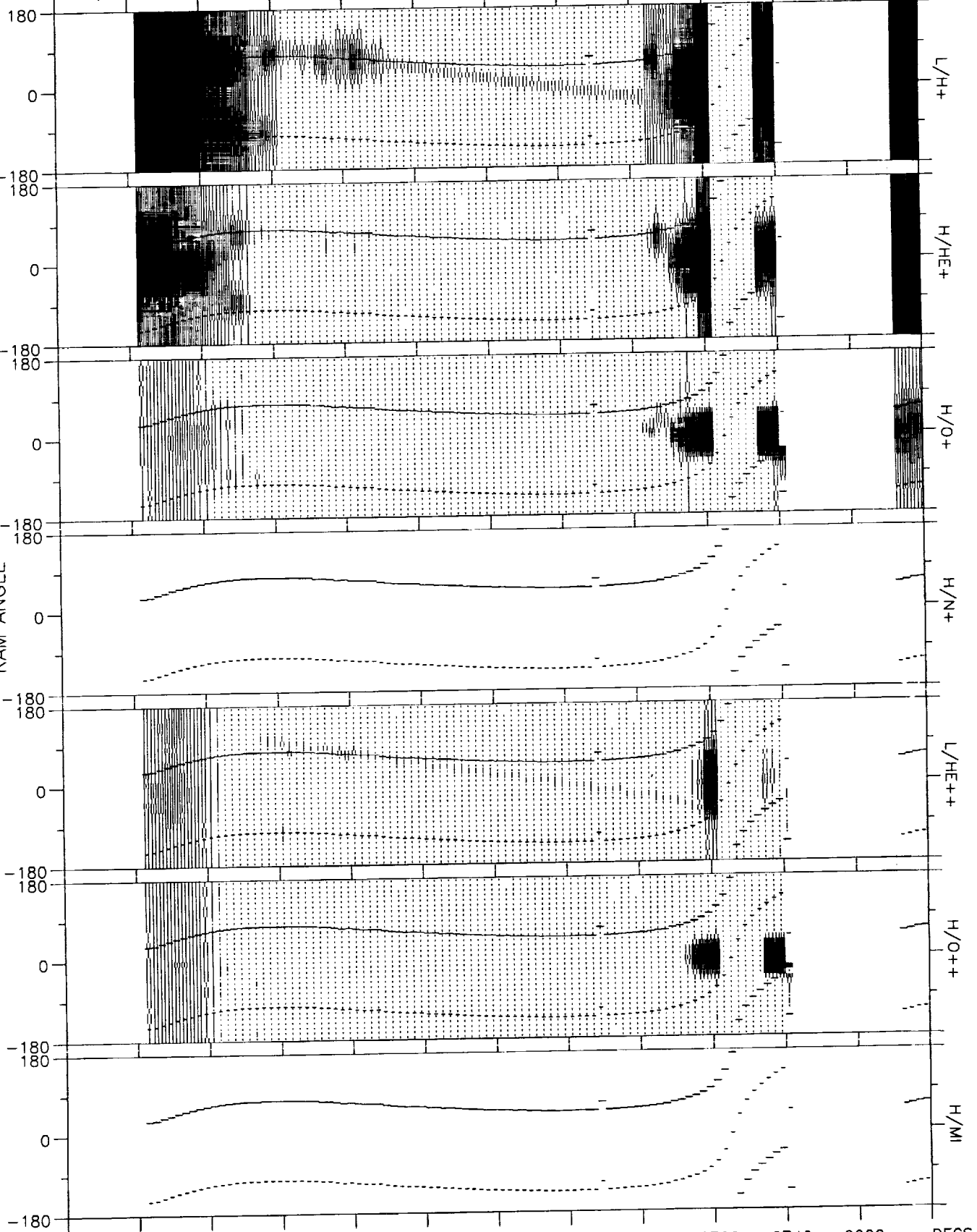
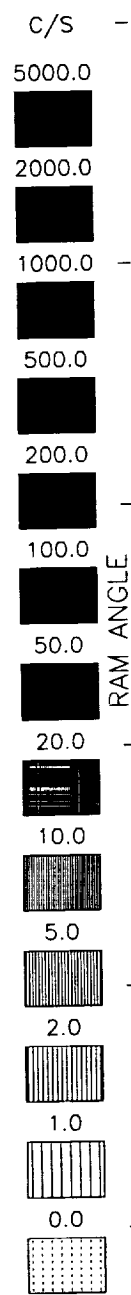
DE RIMS SPIN SUMMARY
SPIN RADIAL CALL (V1.0)
Wed Sep 8 12:30:53 1993

82/046 15-FEB 1815:00 - 0215:00 HEAD= RL RPA= 0 to 1000 BIAS= A

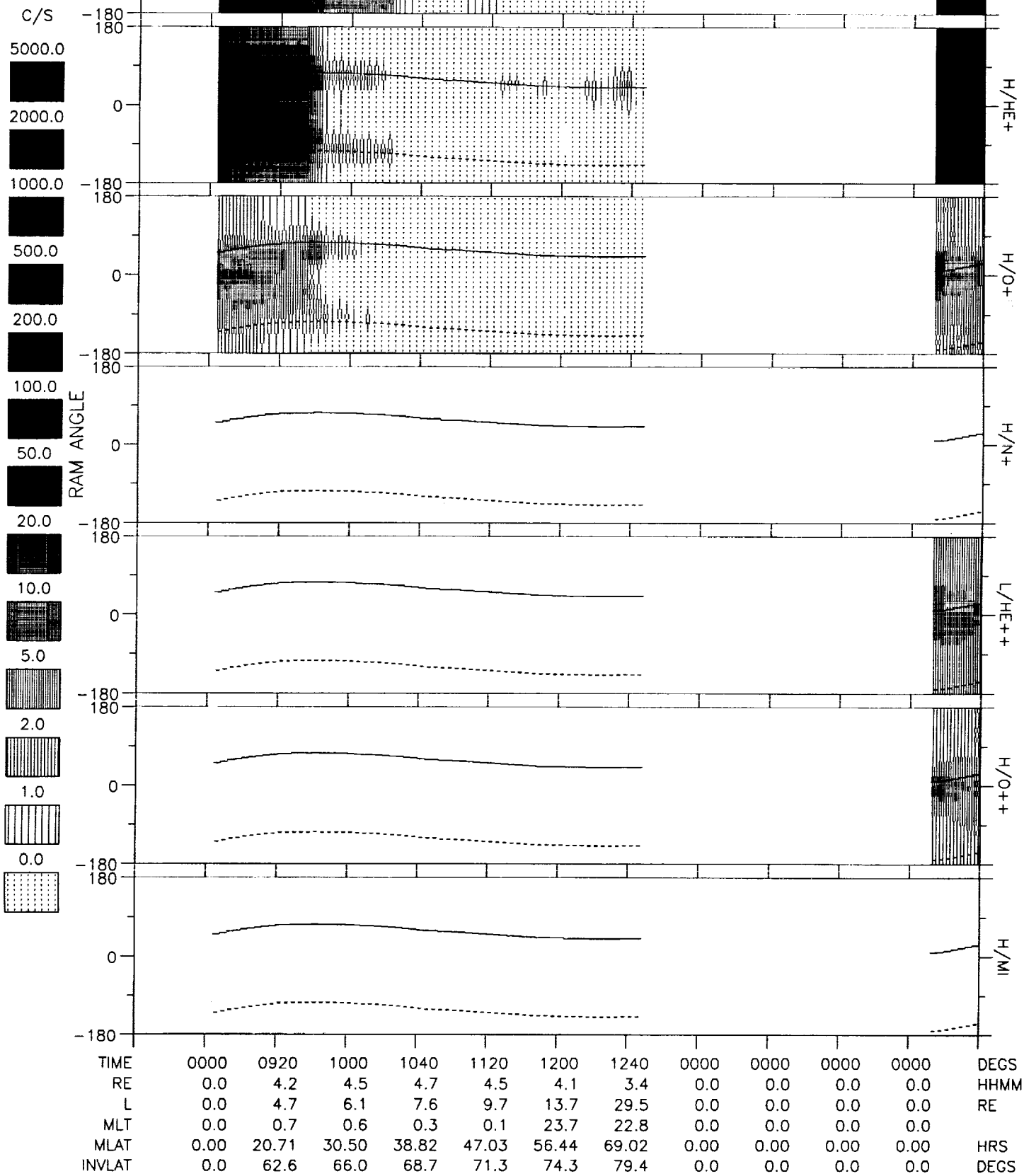


DE RIMS SPIN SUMMARY
SPINRADIAL_ALL (V1.0)
Wed Sep 8 12:33:20 1993

82/047 16-FEB 0100:00 - 0900:00 HEAD= RL RPA= 0 to 1000 BIAS= A

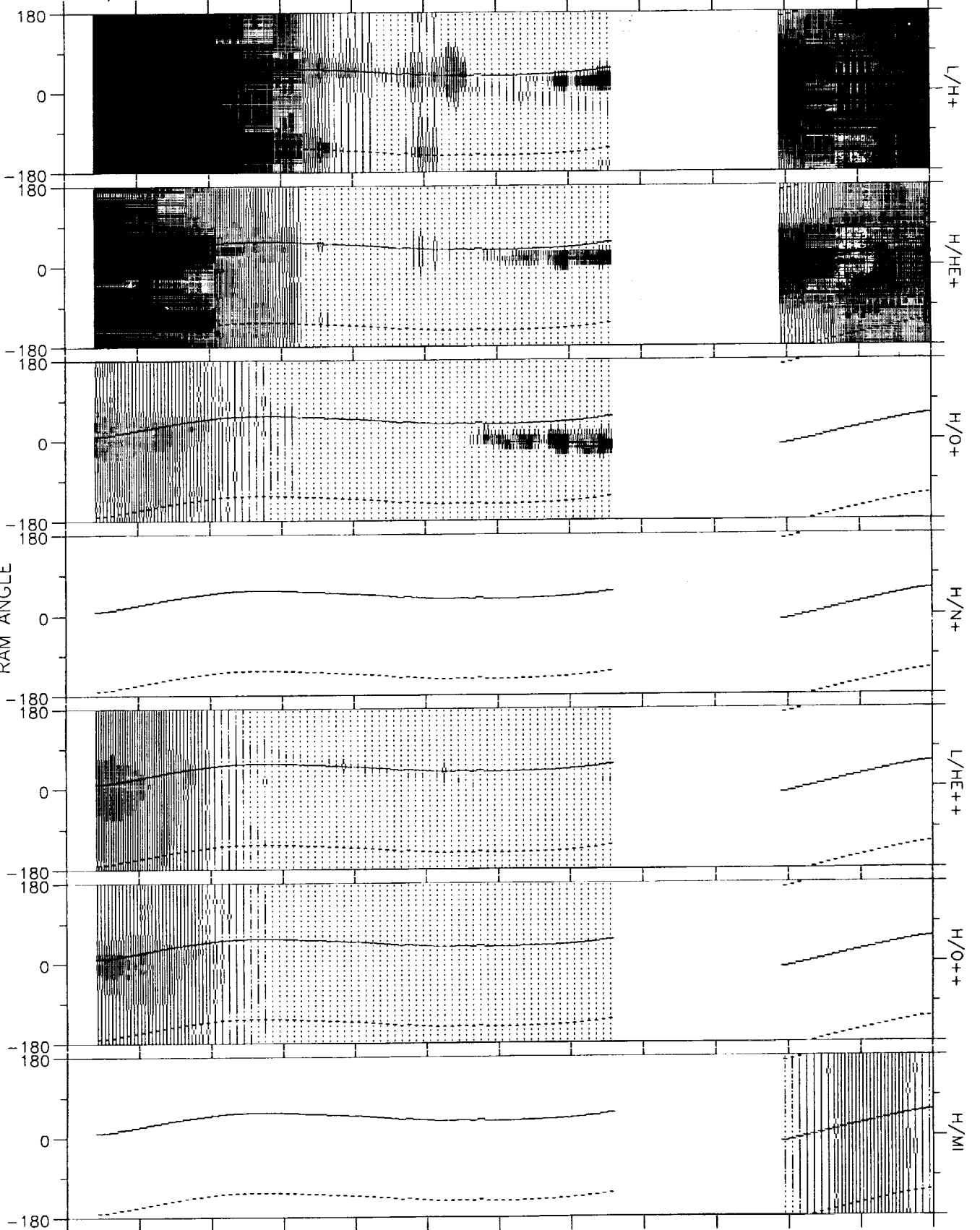
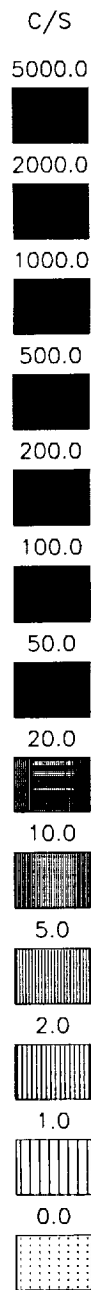


TIME	0000	0220	0300	0340	0420	0500	0540	0620	0700	0740	0000	DEGS
RE	0.0	4.0	4.5	4.7	4.6	4.2	3.6	2.6	1.3	1.6	0.0	HHMM
L	0.0	4.5	6.2	8.8	13.8	27.5	100.0	44.6	1.3	3.9	0.0	RE
MLT	0.0	0.8	0.9	1.0	1.1	1.0	0.6	13.4	13.0	1.5	0.0	HRS
MLAT	0.00	18.89	32.58	44.42	55.77	67.83	82.54	74.28	9.69	*****	0.00	DEGS
INVLAT	0.0	61.8	66.3	70.4	74.4	79.0	85.5	81.4	28.4	59.8	0.0	



DE RIMS SPIN SUMMARY
SPIN_RADIALALL (V1.0)
Wed Sep 8 12:38:00 1993

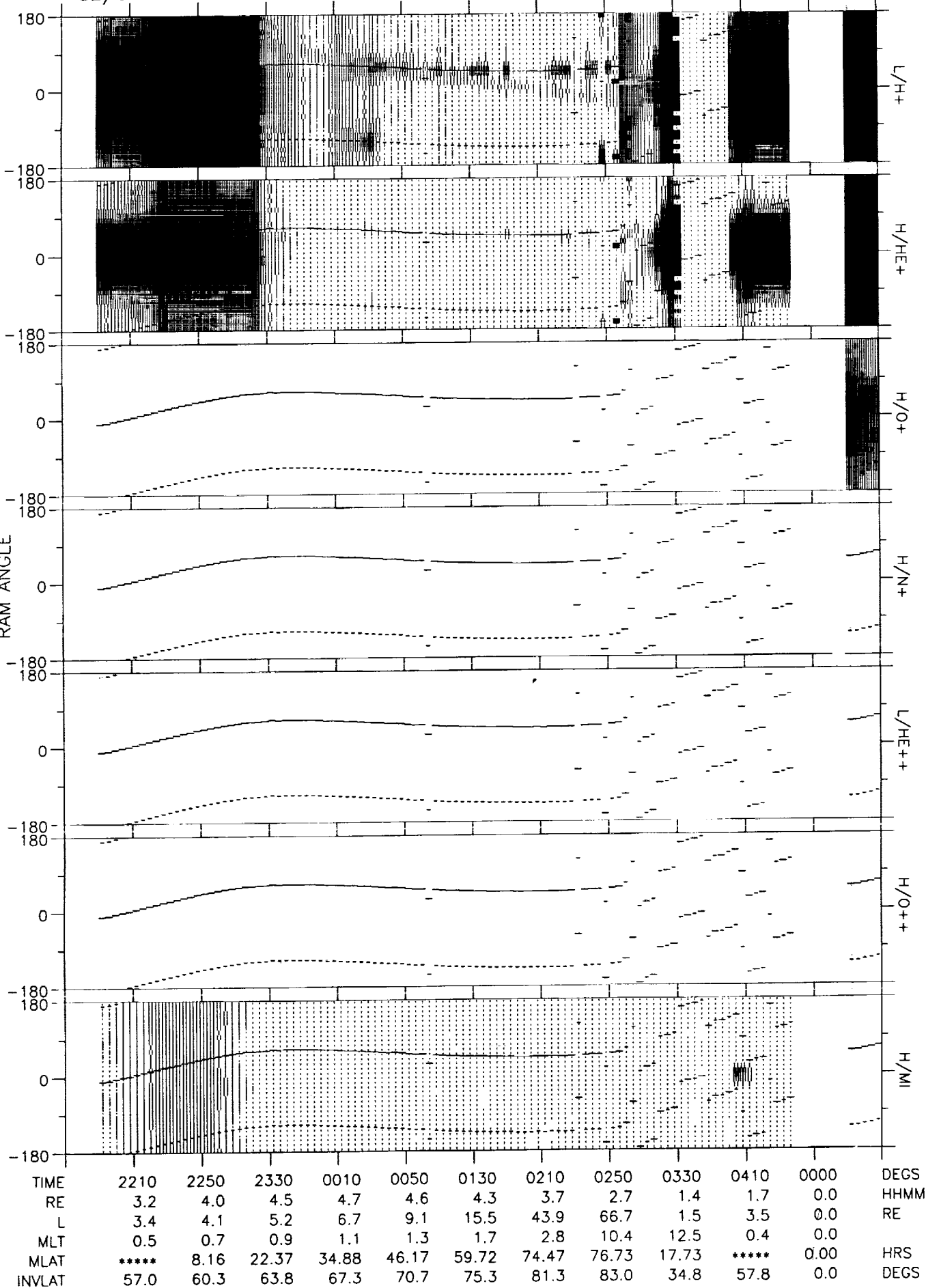
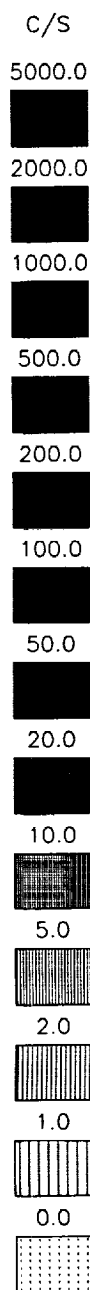
82/047 16-FEB 1515:00 - 2315:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1555	1635	1715	1755	1835	1915	1955	0000	0000	2155	2235	DEGS
RE	3.9	4.4	4.7	4.6	4.3	3.7	2.8	0.0	0.0	2.8	3.7	HHMM
L	3.9	4.5	5.4	6.5	8.5	13.9	84.8	0.0	0.0	3.3	3.8	RE
MLT	0.8	0.7	0.7	0.8	0.9	1.2	2.9	0.0	0.0	0.3	0.6	
MLAT	-1.32	10.83	21.38	31.81	43.31	57.54	77.94	0.00	0.00	*****	1.93	HRS
INVLAT	59.4	62.0	64.5	66.9	69.9	74.4	83.8	0.0	0.0	56.5	59.0	DEGS

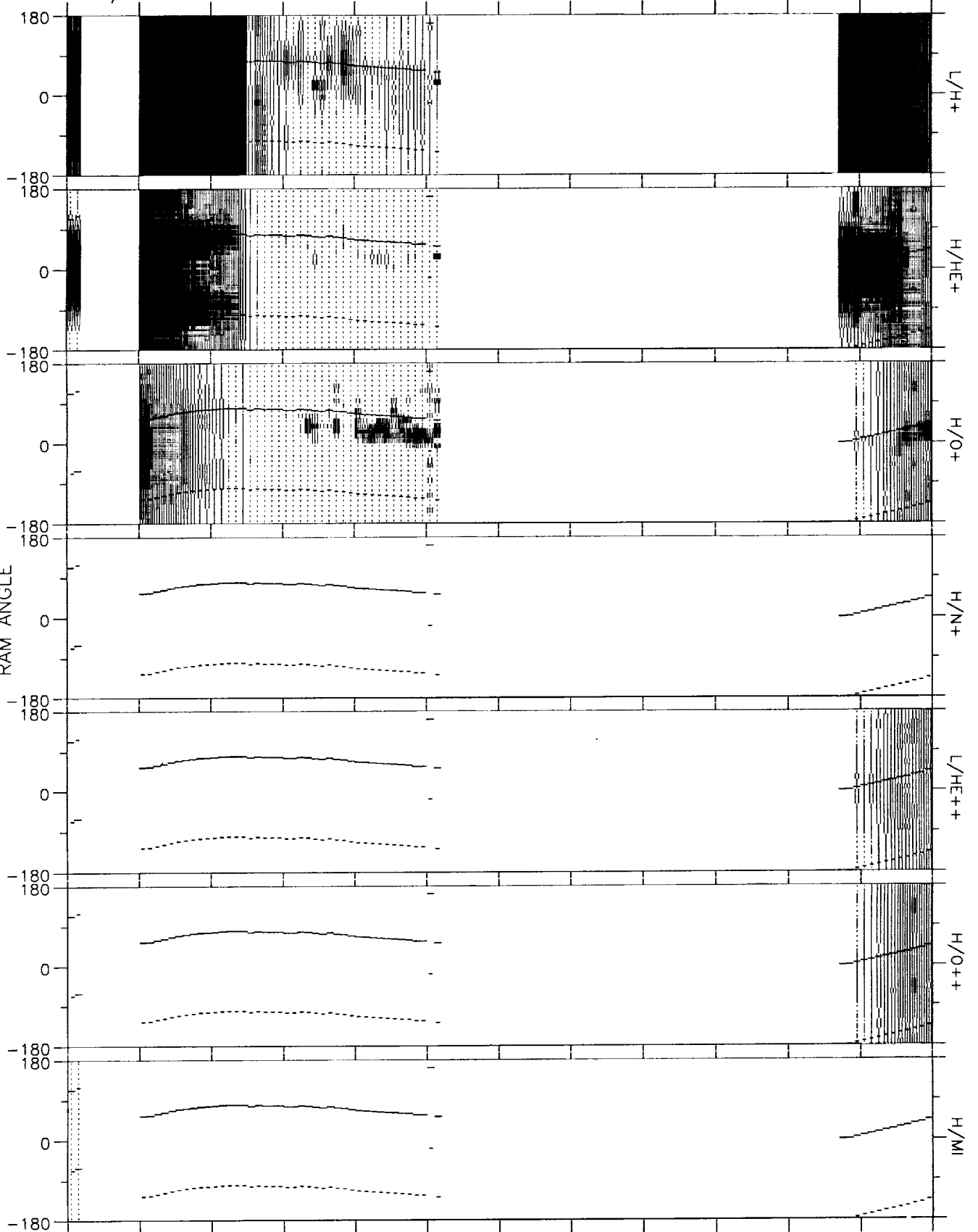
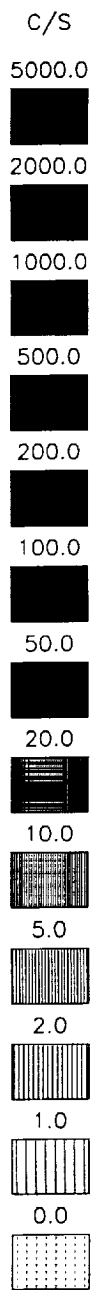
DE RIMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Wed Sep 8 12:40:55 1993

82/047 16-FEB 2130:00 - 0530:00 HEAD= RL RPA= 0 to 1000 BIAS- A



DE RIMS SPIN SUMMARY
SPINRADIAL (V1.0)
Thu Sep 9 09:56:12 1993

82/048 17-FEB 0430:00 - 1230:00 HEAD= RL RPA= 0 to 1000 BIAS= A



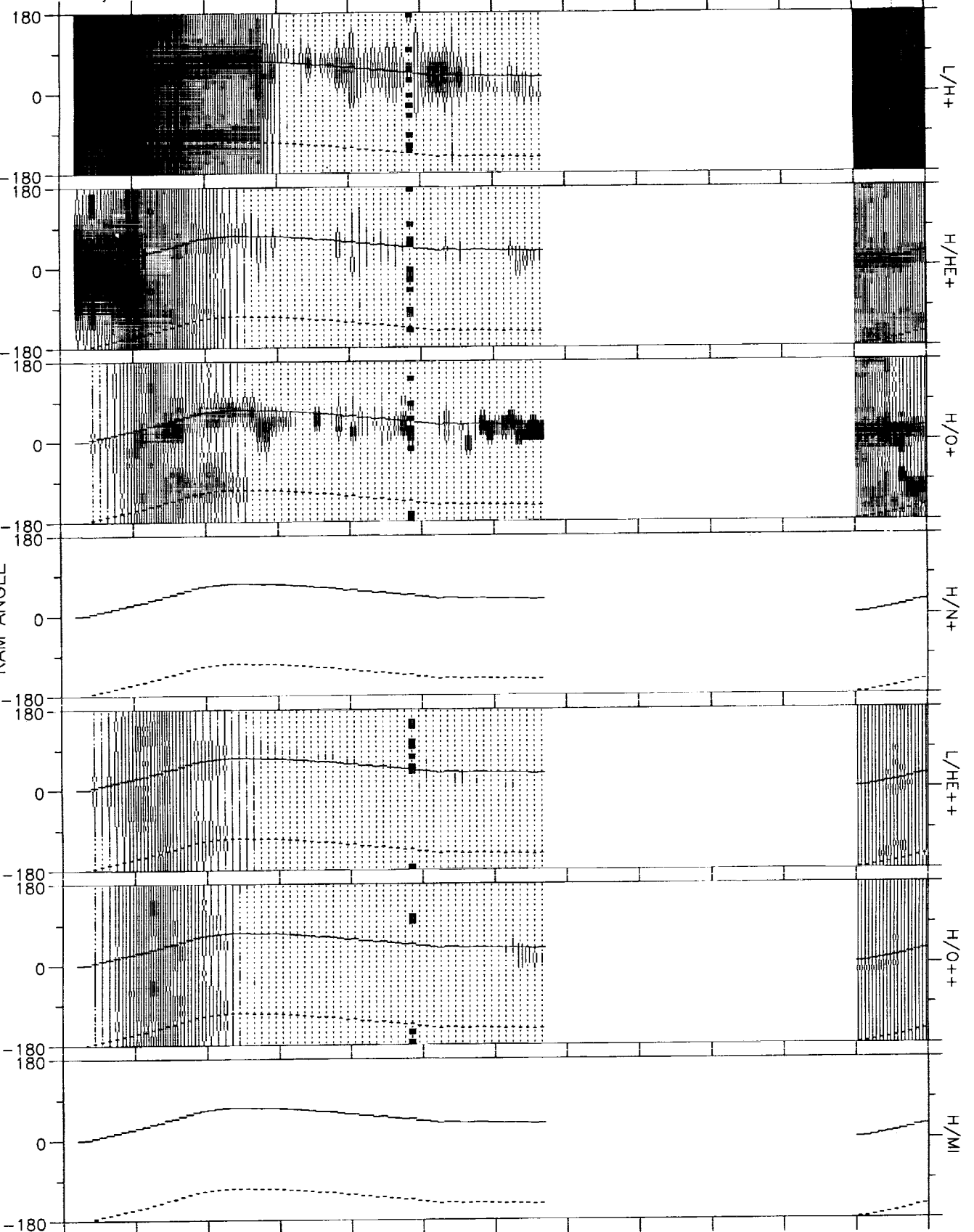
TIME	0510	0550	0630	0710	0750	0000	0000	0000	0000	0000	1150	DEGS
RE	3.4	4.1	4.5	4.7	4.5	0.0	0.0	0.0	0.0	0.0	3.2	HHMM
L	3.6	5.1	7.1	9.8	14.2	0.0	0.0	0.0	0.0	0.0	3.2	RE
MLT	0.7	0.8	0.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.9	
MLAT	9.18	24.97	36.50	46.30	55.52	0.00	0.00	0.00	0.00	0.00	-8.63	HRS
INVLAT	58.1	63.7	67.9	71.4	74.6	0.0	0.0	0.0	0.0	0.0	56.2	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL.ALL (V1.0)
Thu Sep 9 09:58:15 1993

82/048 17-FEB 1130:00 - 1930:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0

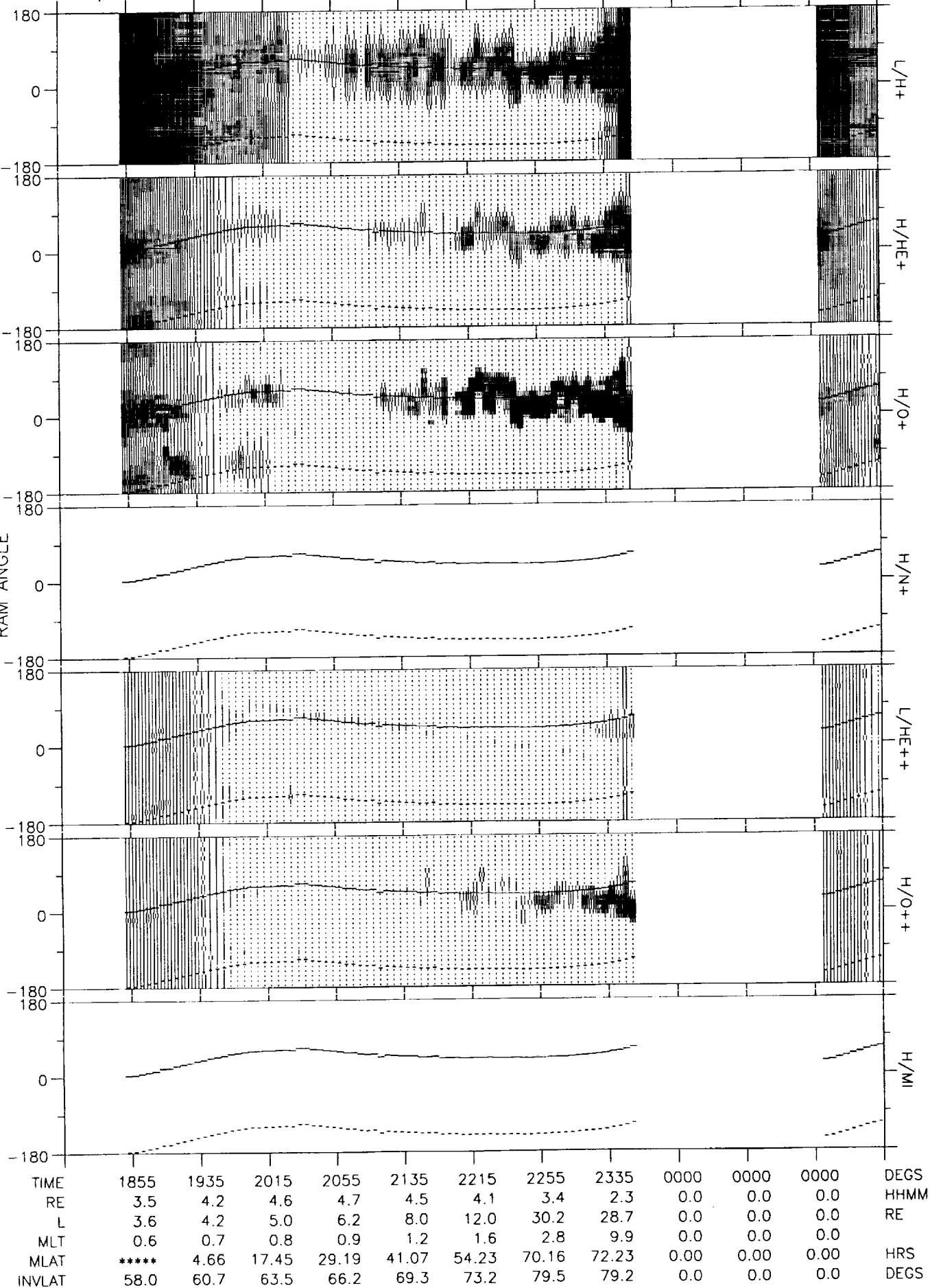
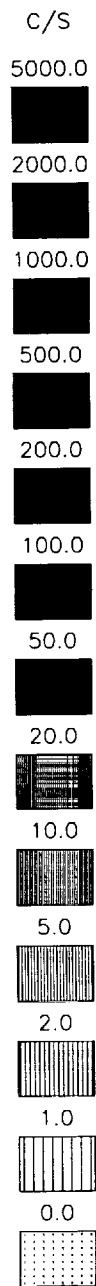
RAM ANGLE



TIME	1210	1250	1330	1410	1450	1530	0000	0000	0000	0000	1850	DEGS
RE	3.6	4.2	4.6	4.7	4.5	4.0	0.0	0.0	0.0	0.0	3.4	HHMM
L	3.6	4.4	5.2	6.3	7.7	10.7	0.0	0.0	0.0	0.0	3.5	RE
MLT	0.8	0.6	0.5	0.4	0.3	0.2	0.0	0.0	0.0	0.0	0.6	
MLAT	-0.03	12.29	21.82	30.59	39.90	51.18	0.00	0.00	0.00	0.00	*****	HRS
INVLAT	58.1	61.5	64.1	66.5	68.9	72.2	0.0	0.0	0.0	0.0	57.8	DEGS

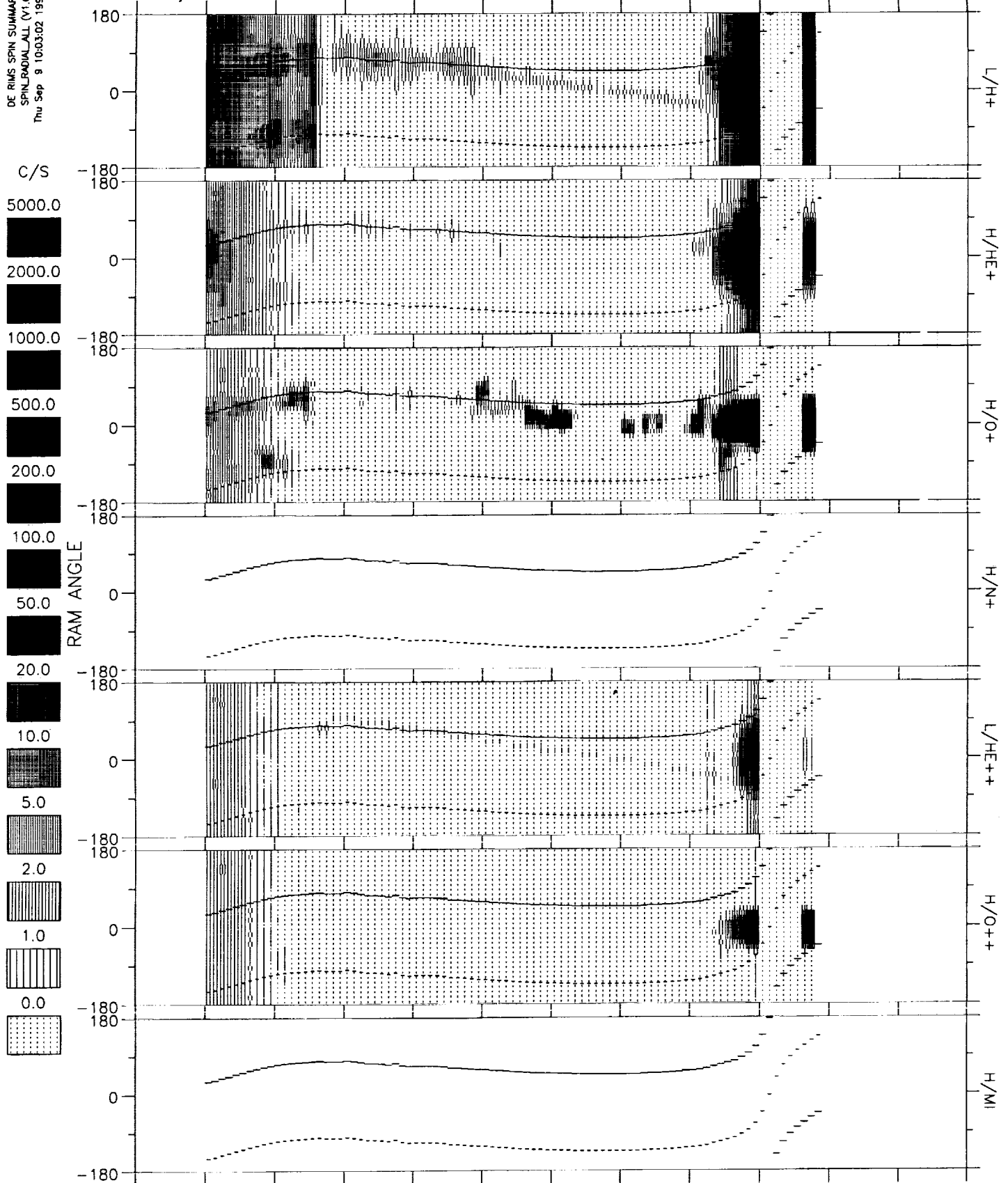
DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Thu Sep 9 10:00:37 1993

82/048 17-FEB 1815:00 - 0215:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Thu Sep 9 10:03:02 1993

82/049 18-FEB 0100:00 - 0900:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0140	0220	0300	0340	0420	0500	0540	0620	0700	0000	0000	DEGS
RE	3.4	4.1	4.5	4.7	4.6	4.2	3.5	2.5	1.2	0.0	0.0	HHMM
L	3.4	4.6	6.4	9.1	14.3	29.3	100.0	28.3	1.1	0.0	0.0	RE
MLT	0.5	0.7	0.8	0.9	0.9	0.9	0.2	13.3	12.8	0.0	0.0	HRS
MLAT	2.64	20.12	33.47	45.18	56.52	68.73	83.91	70.98	-6.58	0.00	0.00	DEGS
INVLAT	57.4	62.3	66.6	70.6	74.7	79.4	86.2	79.2	18.6	0.0	0.0	

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Thu Sep 9 10:05:21 1993

82/049 18-FEB 0800:00 - 1600:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

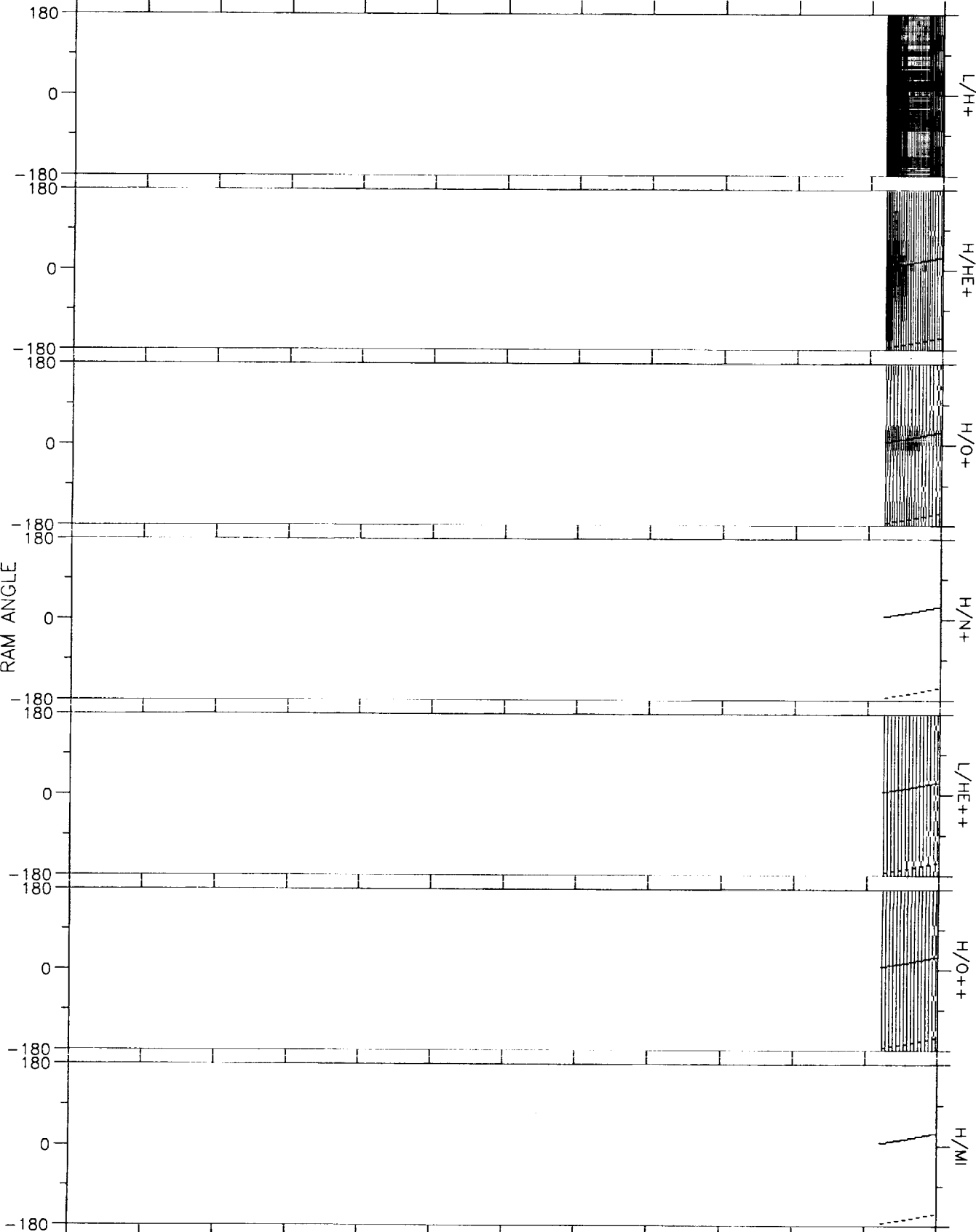
5.0

2.0

1.0

0.0

RAM ANGLE



TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Thu Sep 9 10:06:37 1993

82/049 18-FEB 1515:00 - 2315:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

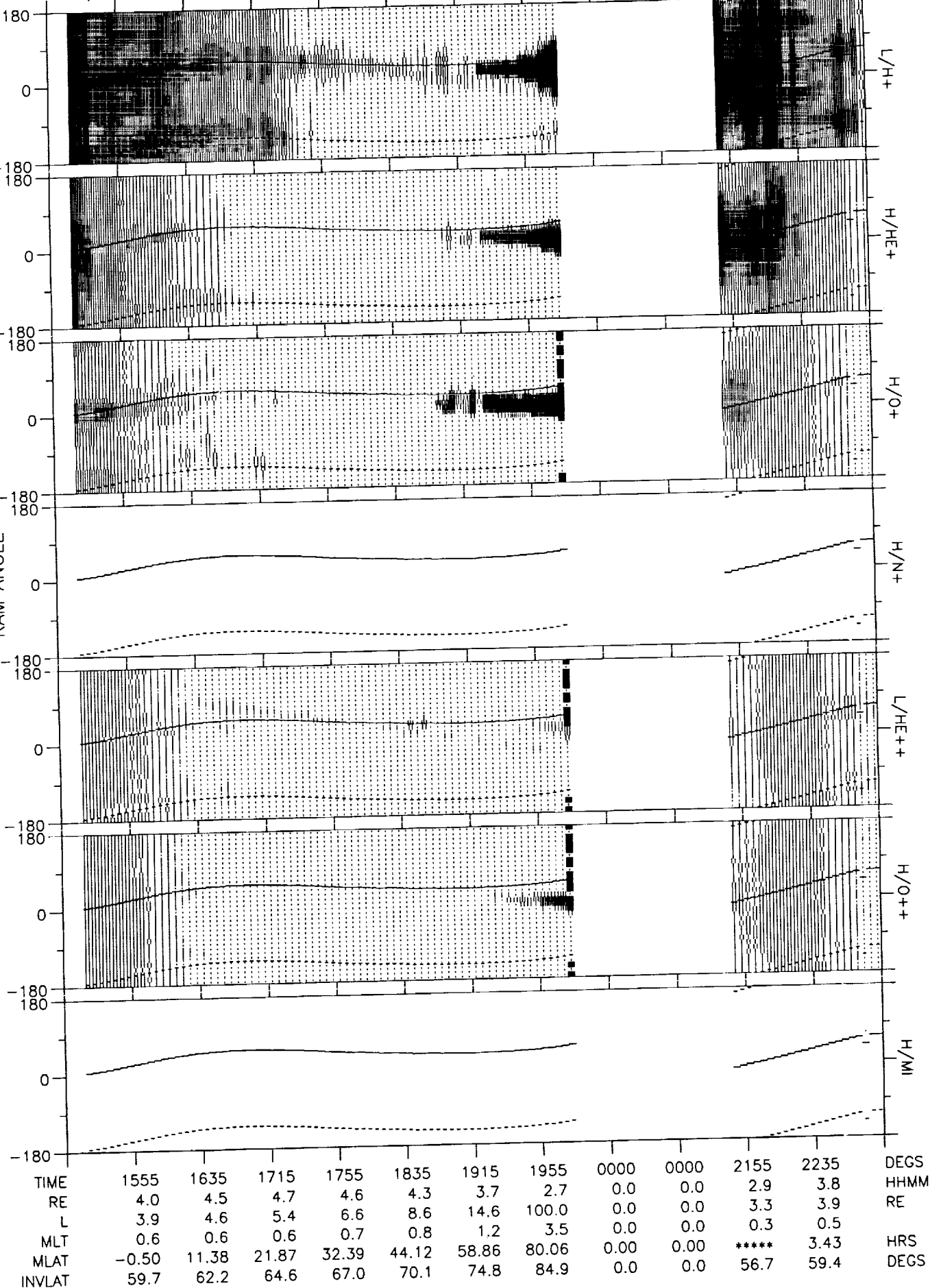
5.0

2.0

1.0

0.0

RAM ANGLE



DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Thu Sep 9 10:28:08 1993

82/049 18-FEB 2130:00 - 0530:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

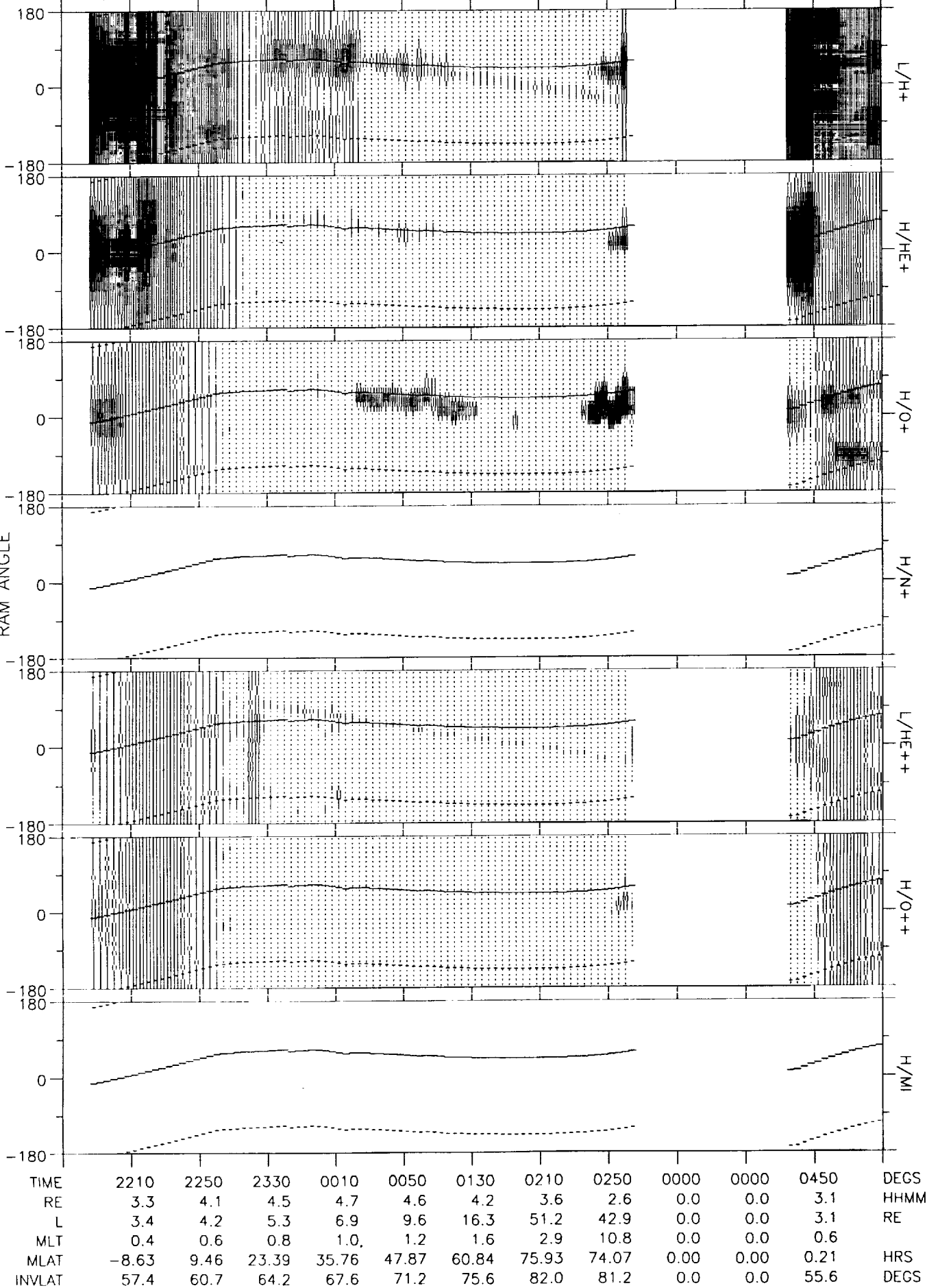
5.0

2.0

1.0

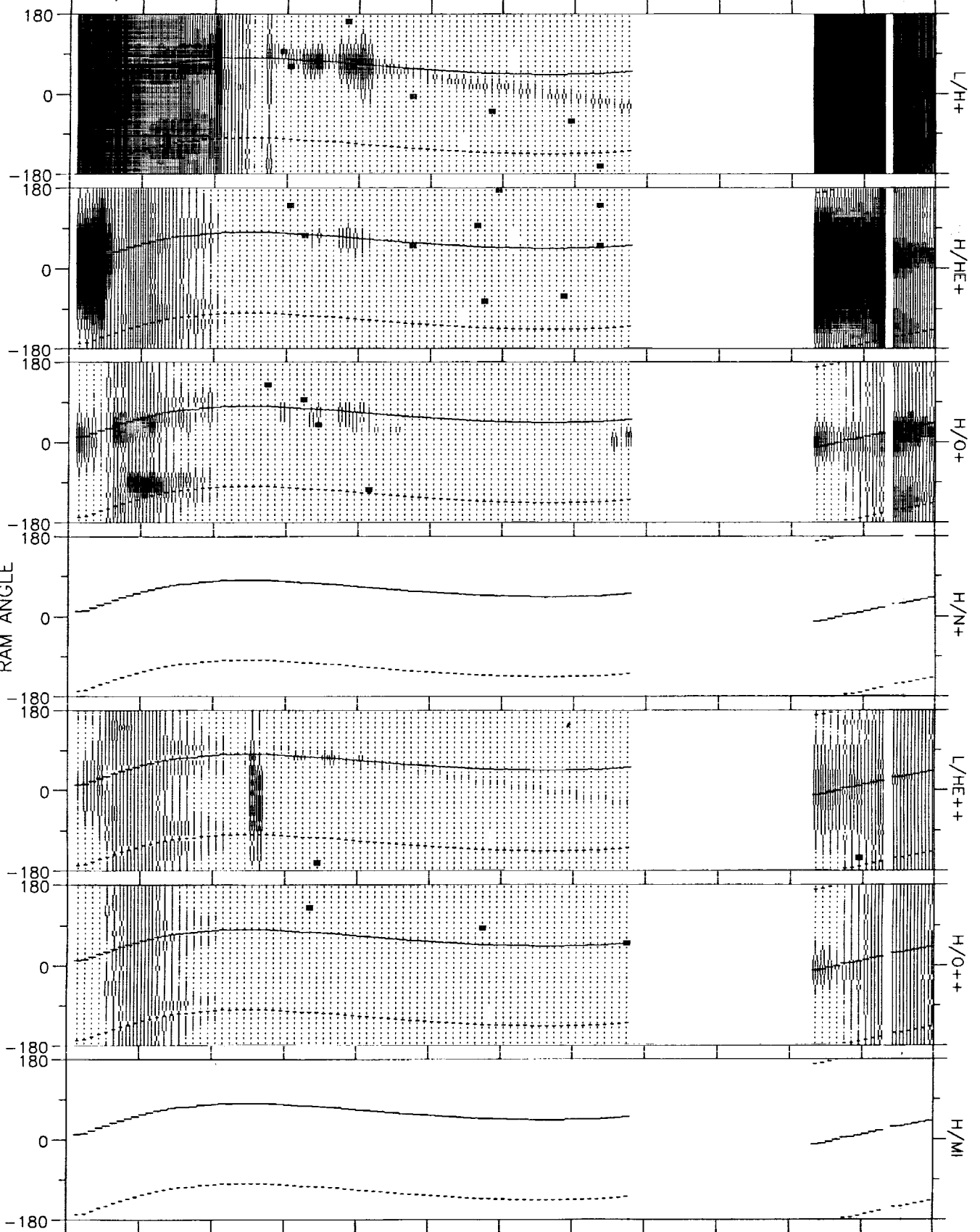
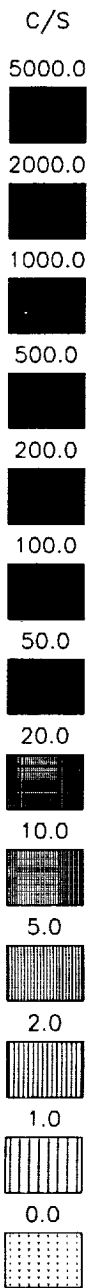
0.0

RAM ANGLE



DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Thu Sep 9 10:30:36 1993

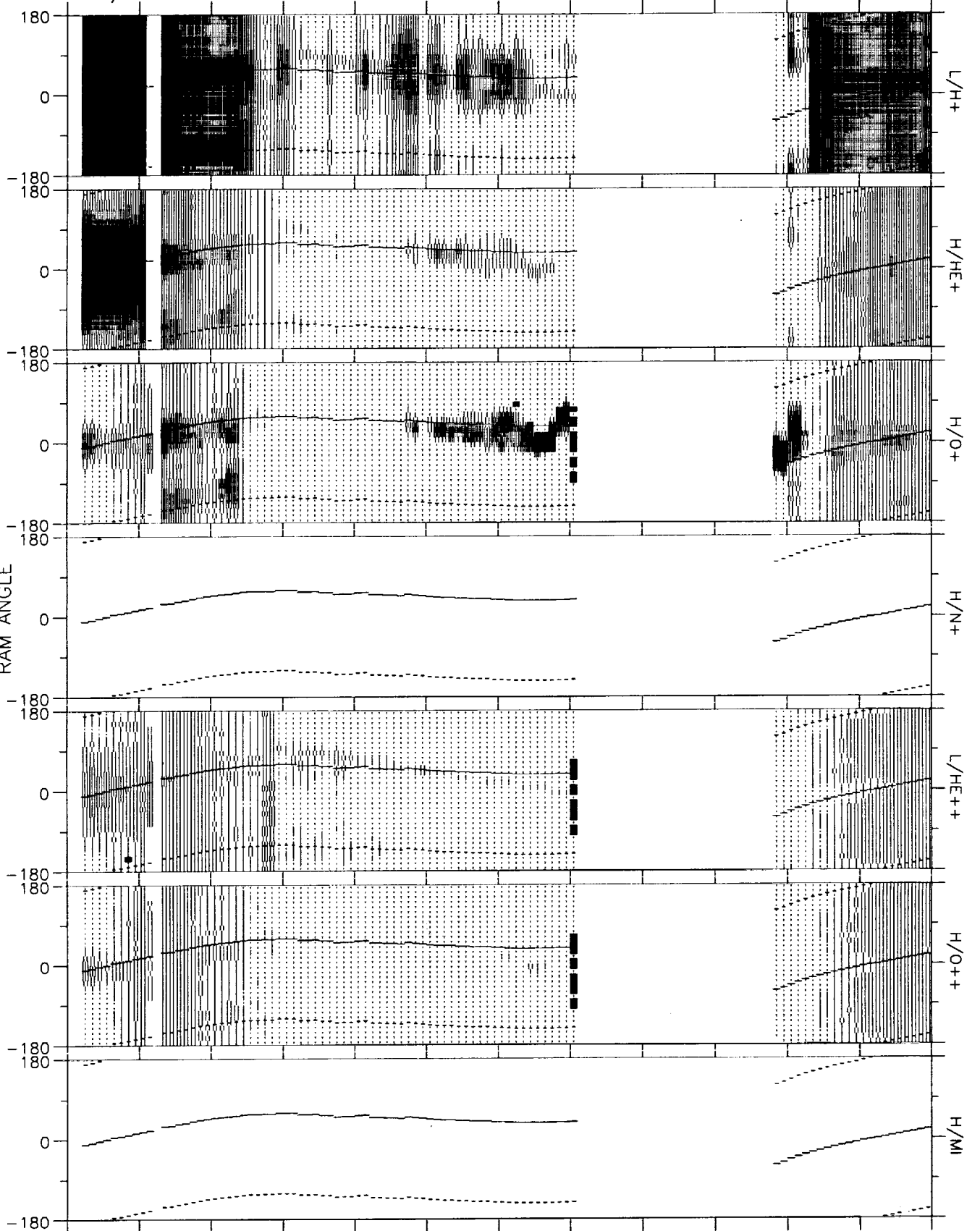
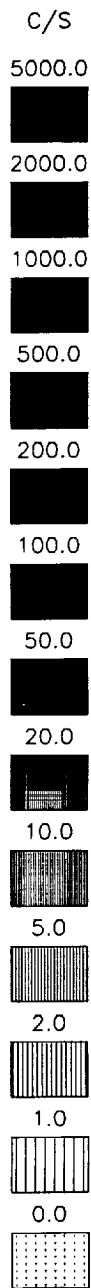
82/050 19-FEB 0430:00 - 1230:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0510	0550	0630	0710	0750	0830	0910	0000	0000	0000	1150	DEGS
RE	3.5	4.2	4.6	4.7	4.5	4.1	3.4	0.0	0.0	0.0	3.3	HHMM
L	3.7	5.2	7.2	9.9	14.3	24.5	80.1	0.0	0.0	0.0	3.3	RE
MLT	0.6	0.6	0.5	0.4	0.1	23.5	21.5	0.0	0.0	0.0	0.8	HRS
MLAT	10.73	25.76	37.00	46.63	55.86	65.84	77.43	0.00	0.00	0.00	-7.22	DEGS
INVLAT	58.8	64.1	68.1	71.5	74.7	78.3	83.6	0.0	0.0	0.0	56.7	

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Thu Sep 9 10:33:10 1993

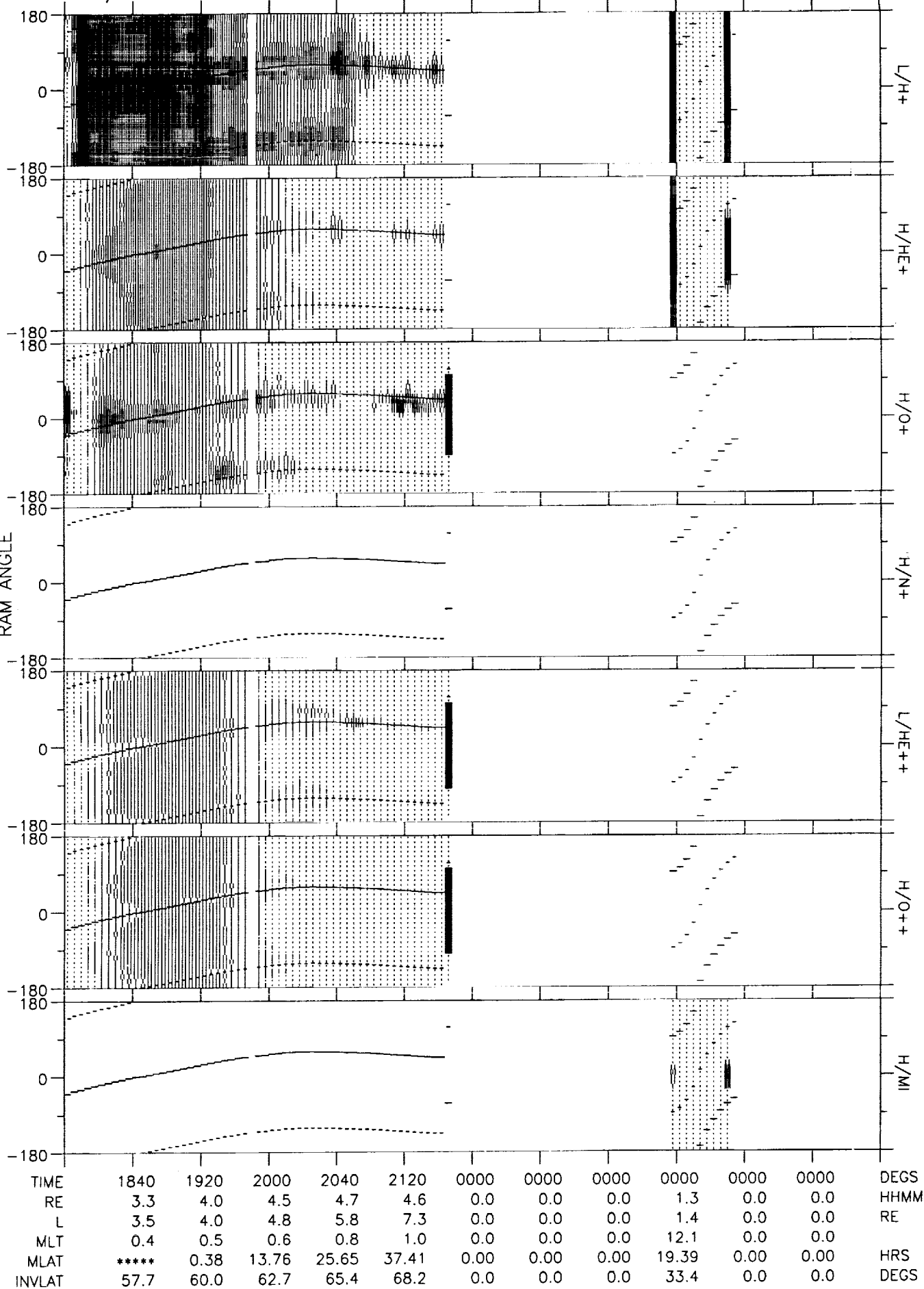
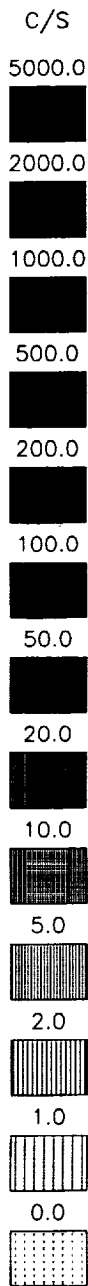
82/050 19-FEB 1115:00 - 1915:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1155	1235	1315	1355	1435	1515	1555	0000	0000	1755	1835	DEGS
RE	3.4	4.1	4.5	4.7	4.6	4.2	3.6	0.0	0.0	1.9	3.1	HHMM
L	3.4	4.2	5.0	5.9	7.1	9.3	15.8	0.0	0.0	6.6	3.5	RE
MLT	0.8	0.5	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.4	0.4	
MLAT	-5.02	8.66	18.67	27.52	36.60	47.21	60.34	0.00	0.00	*****	*****	HRS
INVLAT	57.1	60.6	63.3	65.7	68.0	70.9	75.4	0.0	0.0	67.1	57.6	DEGS

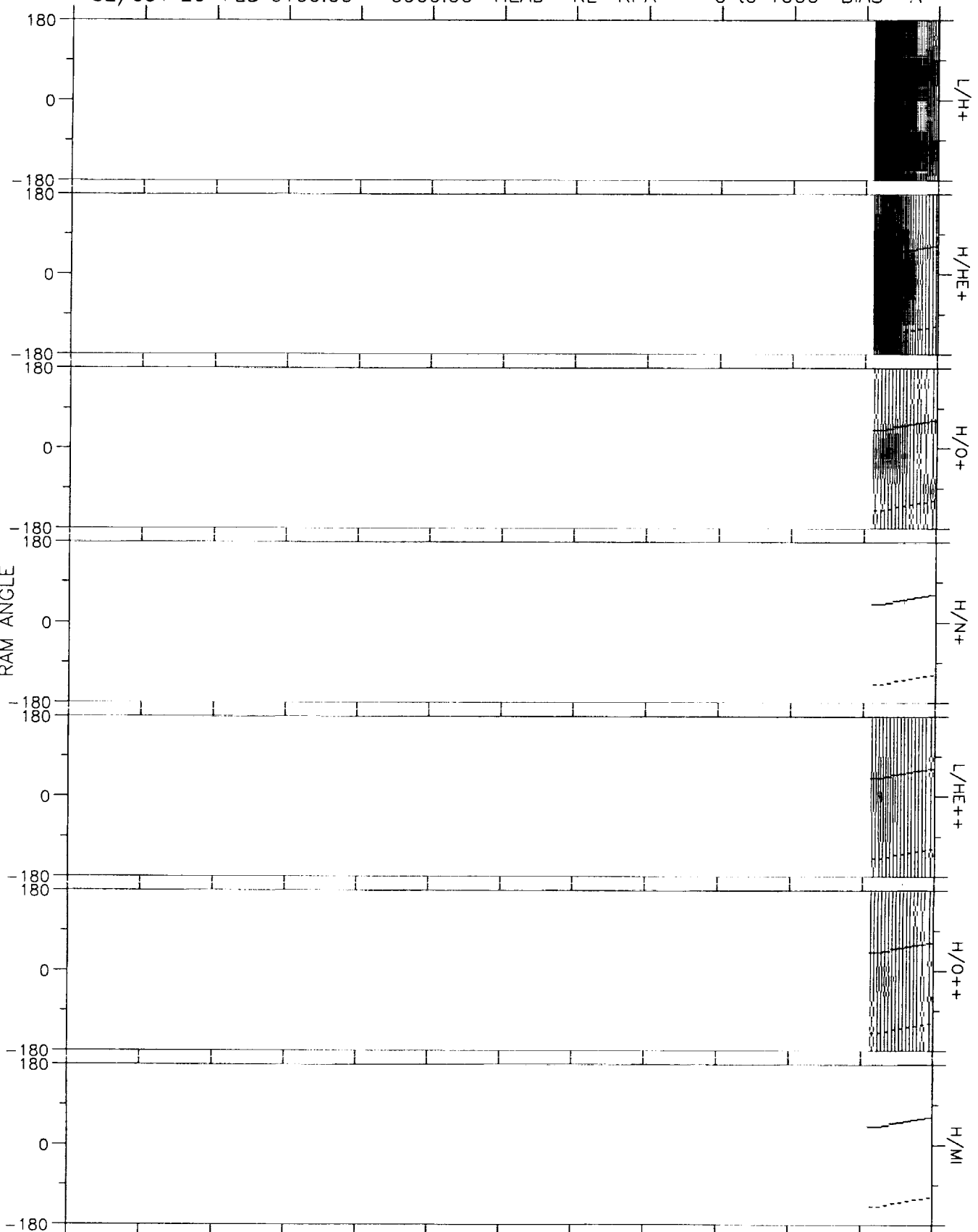
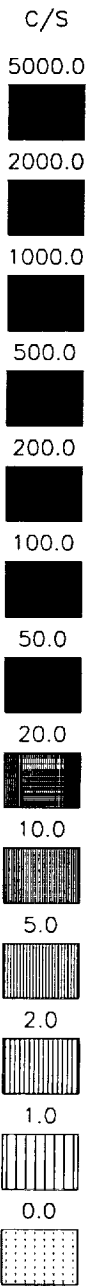
DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Thu Sep 9 10:35:45 1993

82/050 19-FEB 1800:00 - 0200:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Thu Sep 9 10:37:48 1993

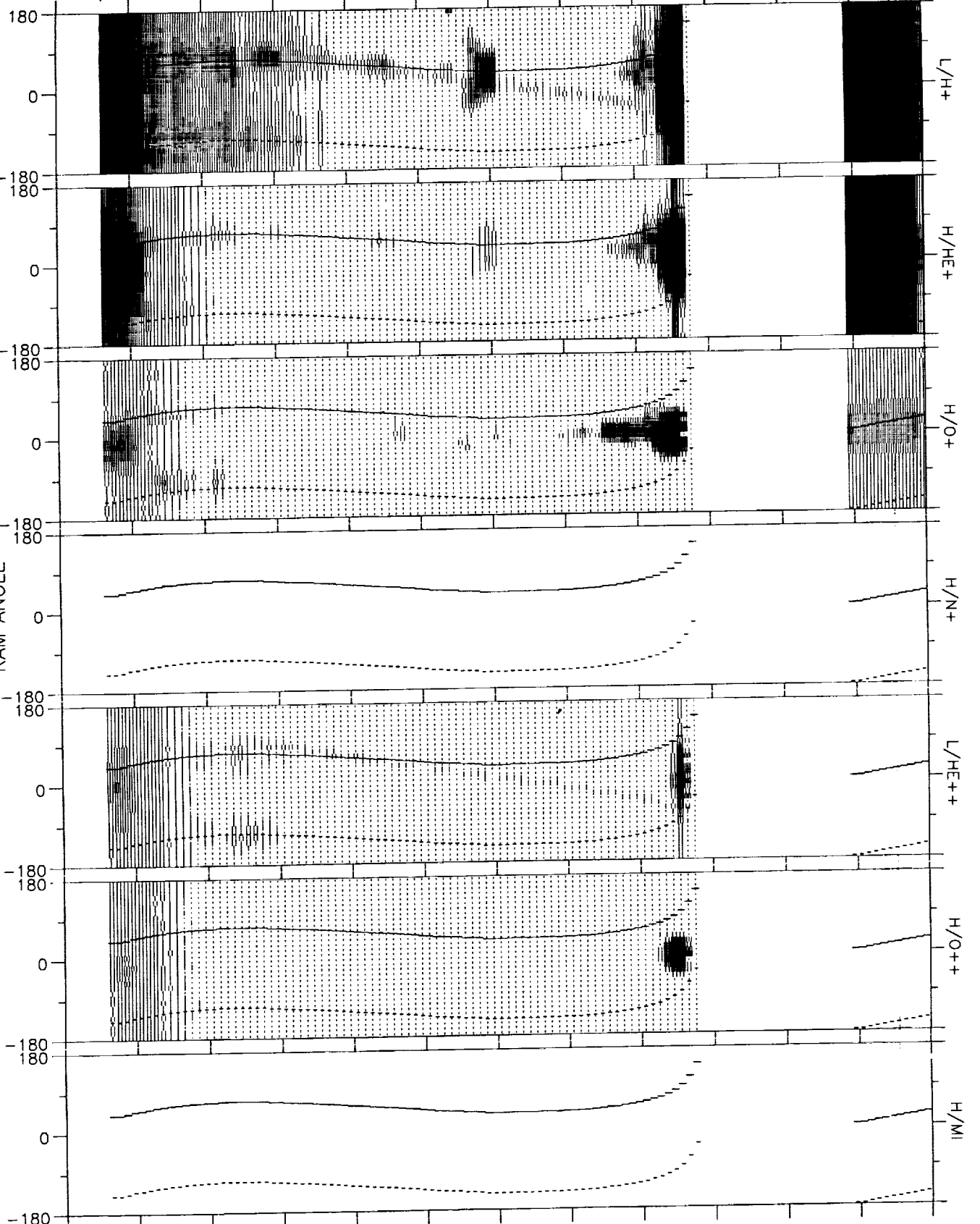
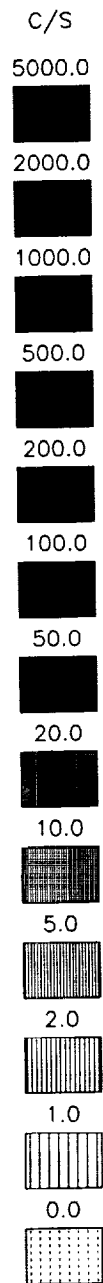
82/051 20-FEB 0100:00 - 0900:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS

DE RMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Thu Sep 9 10:39:08 1993

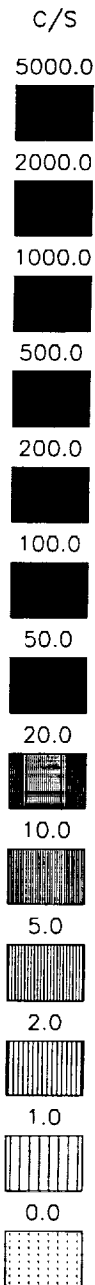
82/051 20-FEB 0800:00 - 1600:00 HEAD= RL RPA= 0 to 1000 BIAS. A



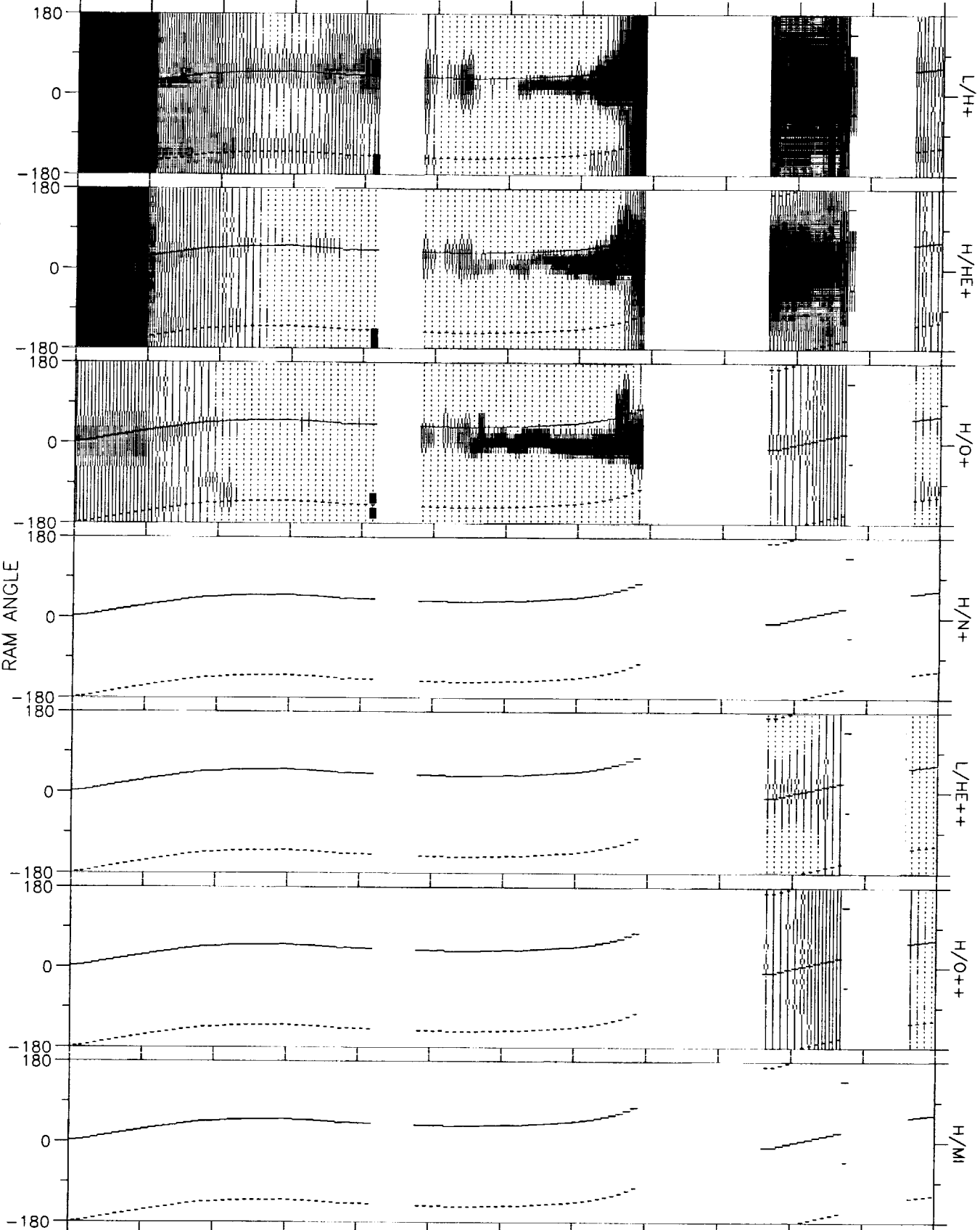
TIME	0840	0920	1000	1040	1120	1200	1240	1320	0000	0000	1520	DEGS
RE	3.7	4.3	4.6	4.7	4.5	4.0	3.2	2.0	0.0	0.0	3.4	HHMM
L	3.8	4.9	6.2	7.6	9.7	14.1	36.0	16.0	0.0	0.0	3.5	RE
MLT	0.6	0.4	0.2	0.0	23.8	23.4	22.3	14.6	0.0	0.0	0.6	
MLAT	9.22	21.59	30.88	39.07	47.45	57.43	71.32	70.96	0.00	0.00	*****	HRS
INVLAT	58.9	63.2	66.3	68.8	71.3	74.5	80.4	75.5	0.0	0.0	57.9	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Thu Sep 9 10:41:43 1993

82/051 20-FEB 1515:00 - 2315:00 HEAD= RL RPA= 0 to 1000 BIAS= A



RAM ANGLE



TIME	1555	1635	1715	1755	1835	1915	1955	0000	0000	2155	0000	DEGS
RE	4.1	4.5	4.7	4.6	4.2	3.6	2.6	0.0	0.0	3.1	0.0	HHMM
L	4.0	4.7	5.5	6.6	8.8	15.1	100.0	0.0	0.0	3.4	0.0	RE
MLT	0.5	0.4	0.5	0.6	0.7	1.1	4.6	0.0	0.0	0.2	0.0	
MLAT	0.27	11.95	22.41	33.01	44.99	59.68	81.84	0.00	0.00	****	0.00	HRS
INVLAT	60.0	62.4	64.7	67.2	70.2	75.1	86.0	0.0	0.0	56.9	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Thu Sep 9 11:43:29 1993

82/051 20-FEB 2130:00 - 0530:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

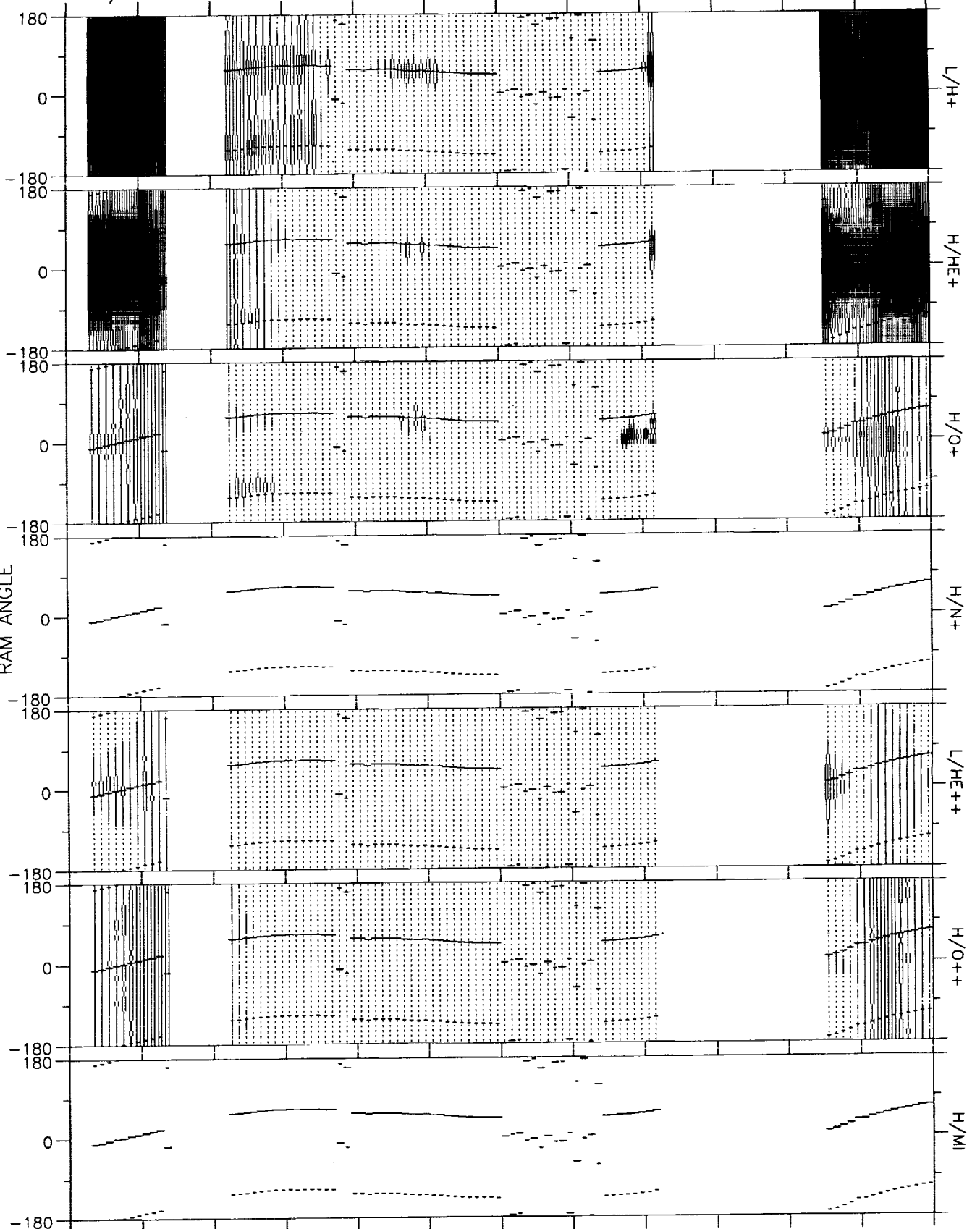
5.0

2.0

1.0

0.0

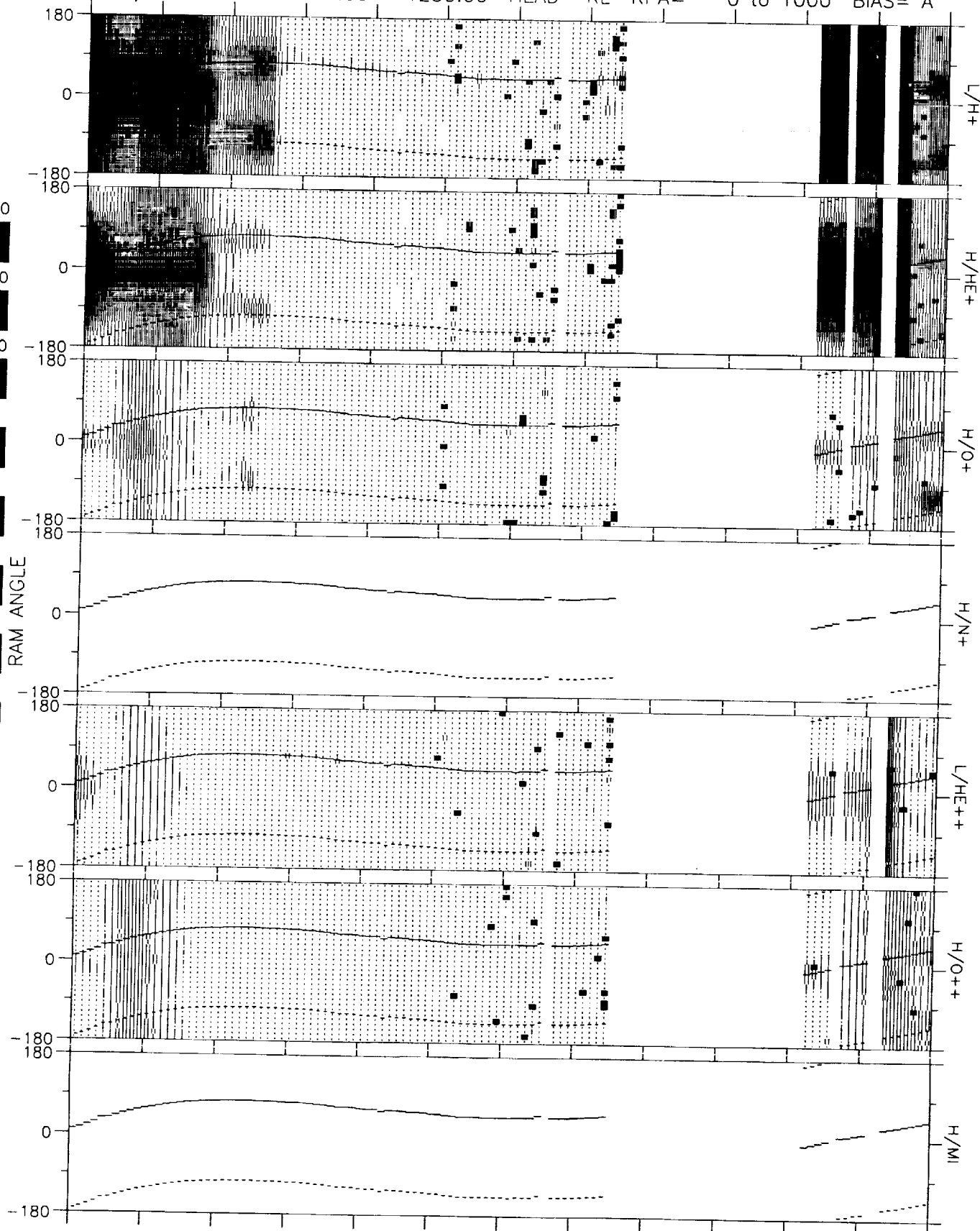
RAM ANGLE



TIME	2210	0000	2330	0010	0050	0130	0210	0250	0000	0000	0450	DEGS
RE	3.4	0.0	4.5	4.7	4.5	4.2	3.5	2.4	0.0	0.0	3.2	HHMM
L	3.5	0.0	5.4	7.0	9.9	17.2	61.5	26.8	0.0	0.0	3.2	RE
MLT	0.3	0.0	0.7	0.9	1.1	1.5	3.1	11.0	0.0	0.0	0.5	HRS
MLAT	-6.62	0.00	24.40	36.69	48.85	62.01	77.45	70.68	0.00	0.00	2.26	DEGS
INVLAT	57.8	0.0	64.4	67.8	71.5	76.0	82.7	78.9	0.0	0.0	56.3	

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Thu Sep 9 11:45:47 1993

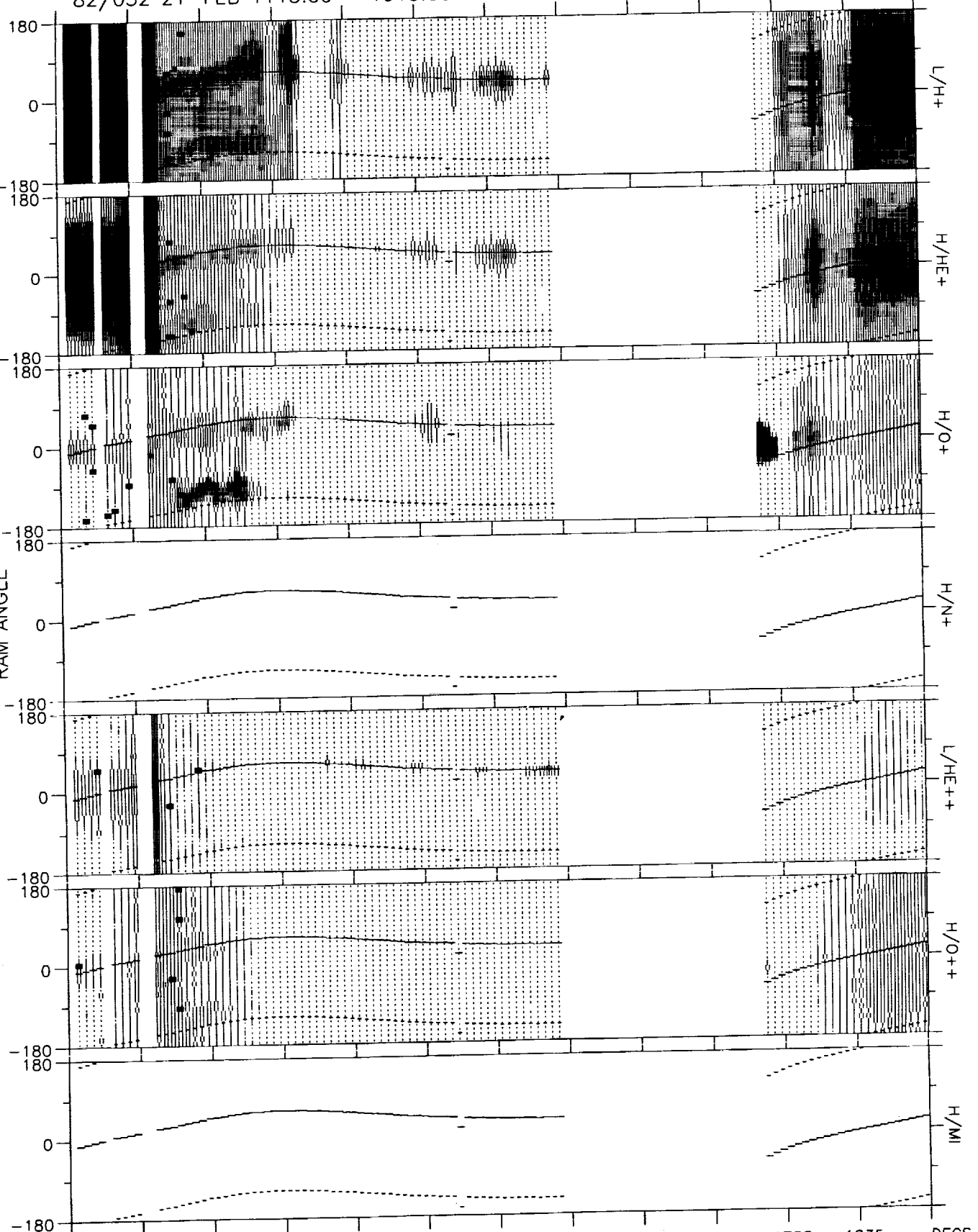
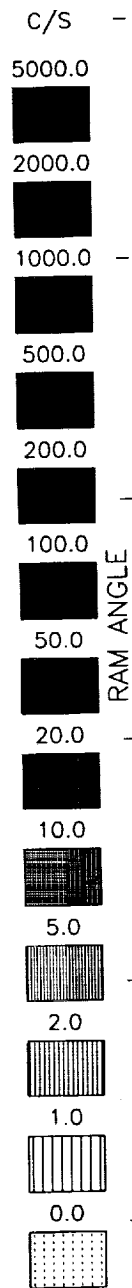
82/052 21-FEB 0430:00 - 1230:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0510	0550	0630	0710	0750	0830	0910	0000	0000	0000	1150	DEGS
RE	3.6	4.2	4.6	4.7	4.5	4.0	3.3	0.0	0.0	0.0	3.4	HHMM
L	3.8	5.4	7.3	10.0	14.4	25.1	87.7	0.0	0.0	0.0	3.4	RE
MLT	0.5	0.5	0.4	0.2	23.9	23.3	21.0	0.0	0.0	0.0	0.6	
MLAT	12.12	26.49	37.44	46.93	56.16	66.31	77.98	0.00	0.00	0.00	-6.05	HRS
INVLAT	59.4	64.4	68.3	71.6	74.7	78.5	83.9	0.0	0.0	0.0	57.1	DEGS

DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Thu Sep 9 11:48:16 1993

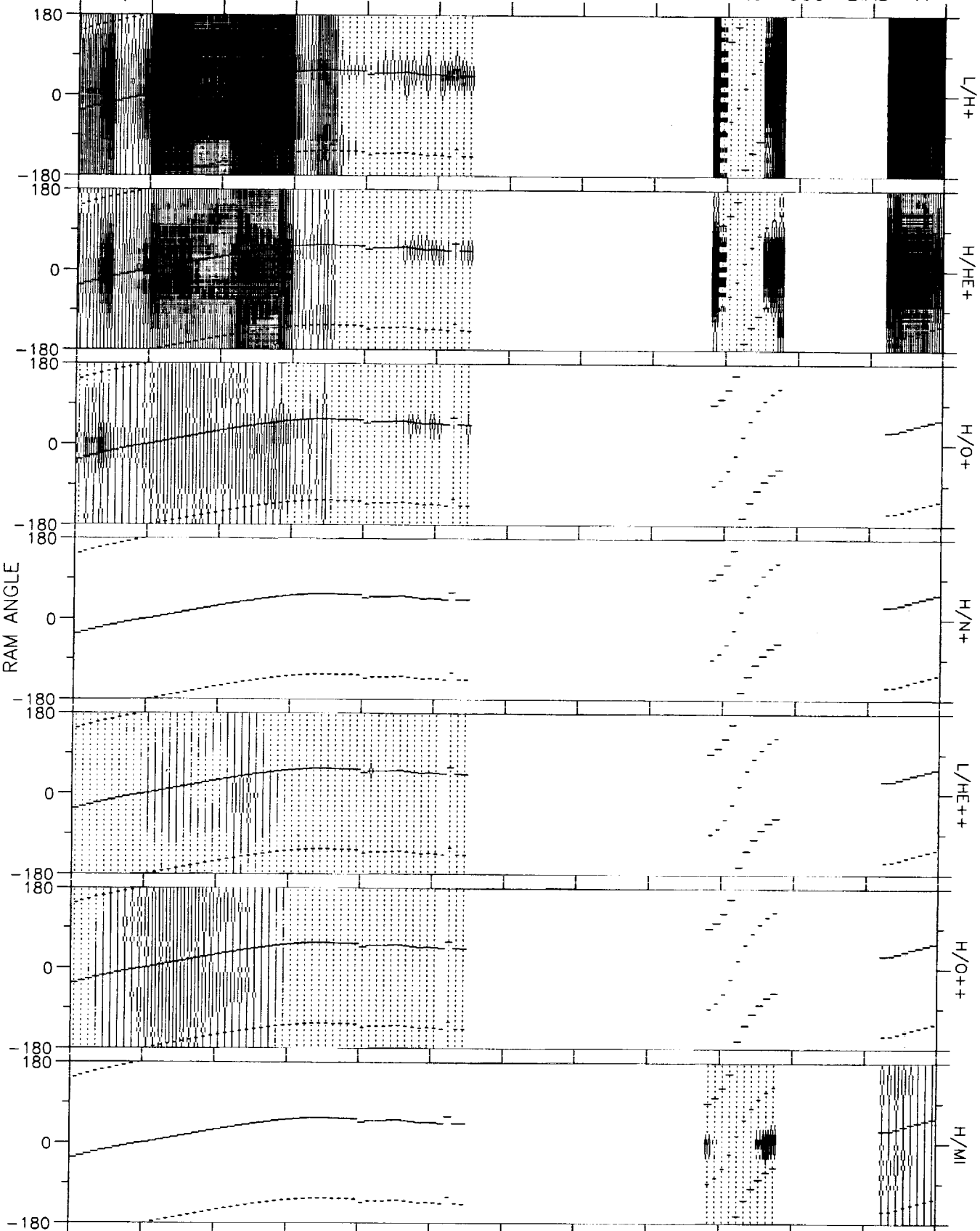
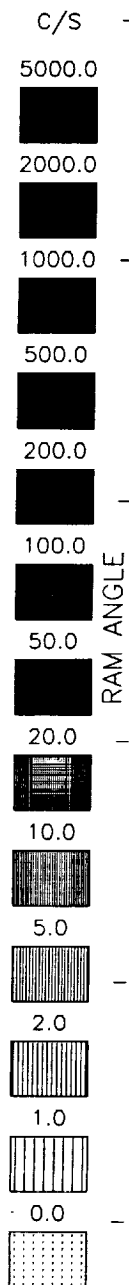
82/052 21-FEB 1115:00 - 1915:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	1235	1315	1355	1435	1515	0000	0000	0000	1755	1835	DEGS
RE	0.0	4.2	4.6	4.7	4.5	4.1	0.0	0.0	0.0	2.1	3.3	HHMM
L	0.0	4.2	5.0	5.9	7.1	9.5	0.0	0.0	0.0	5.3	3.5	RE
MLT	0.0	0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.3	HRS
MLAT	0.00	9.12	18.92	27.76	36.96	47.87	0.00	0.00	0.00	****	****	DEGS
INVLAT	0.0	60.9	63.5	65.7	68.0	71.0	0.0	0.0	0.0	64.2	57.8	

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Thu Sep 9 11:50:40 1993

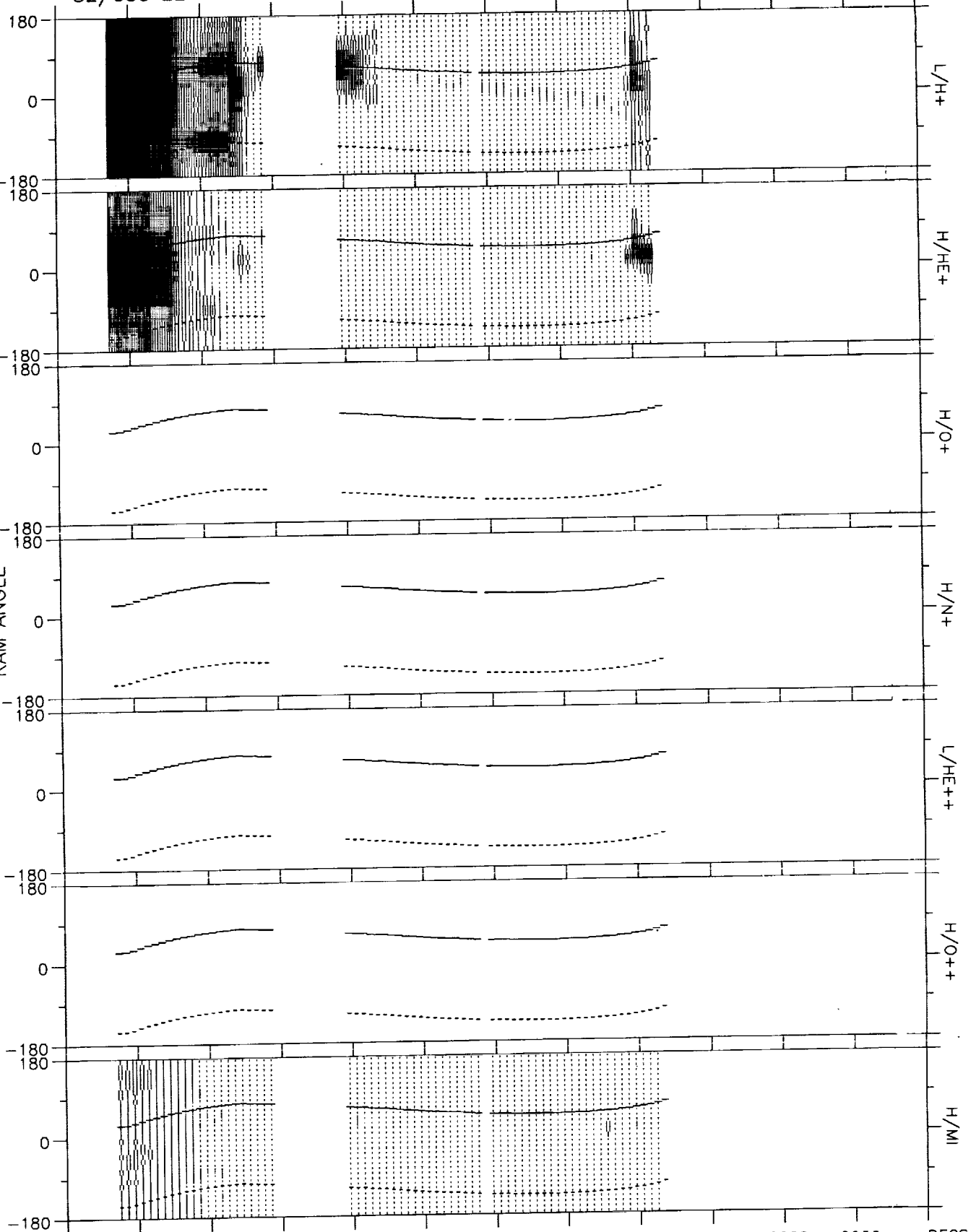
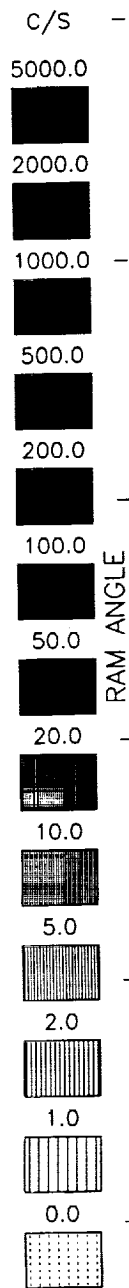
82/052 21-FEB 1800:00 - 0200:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1840	1920	2000	2040	2120	0000	0000	0000	0000	0000	0000	DEGS
RE	3.4	4.1	4.5	4.7	4.6	0.0	0.0	0.0	1.2	0.0	0.0	HHMM
L	3.5	4.1	4.8	5.8	7.3	0.0	0.0	0.0	1.2	0.0	0.0	RE
MLT	0.3	0.4	0.5	0.7	0.9	0.0	0.0	0.0	12.2	0.0	0.0	
MLAT	*****	1.47	14.60	26.44	37.86	0.00	0.00	0.00	2.91	0.00	0.00	HRS
INVLAT	57.9	60.3	62.9	65.5	68.3	0.0	0.0	0.0	21.6	0.0	0.0	DEC

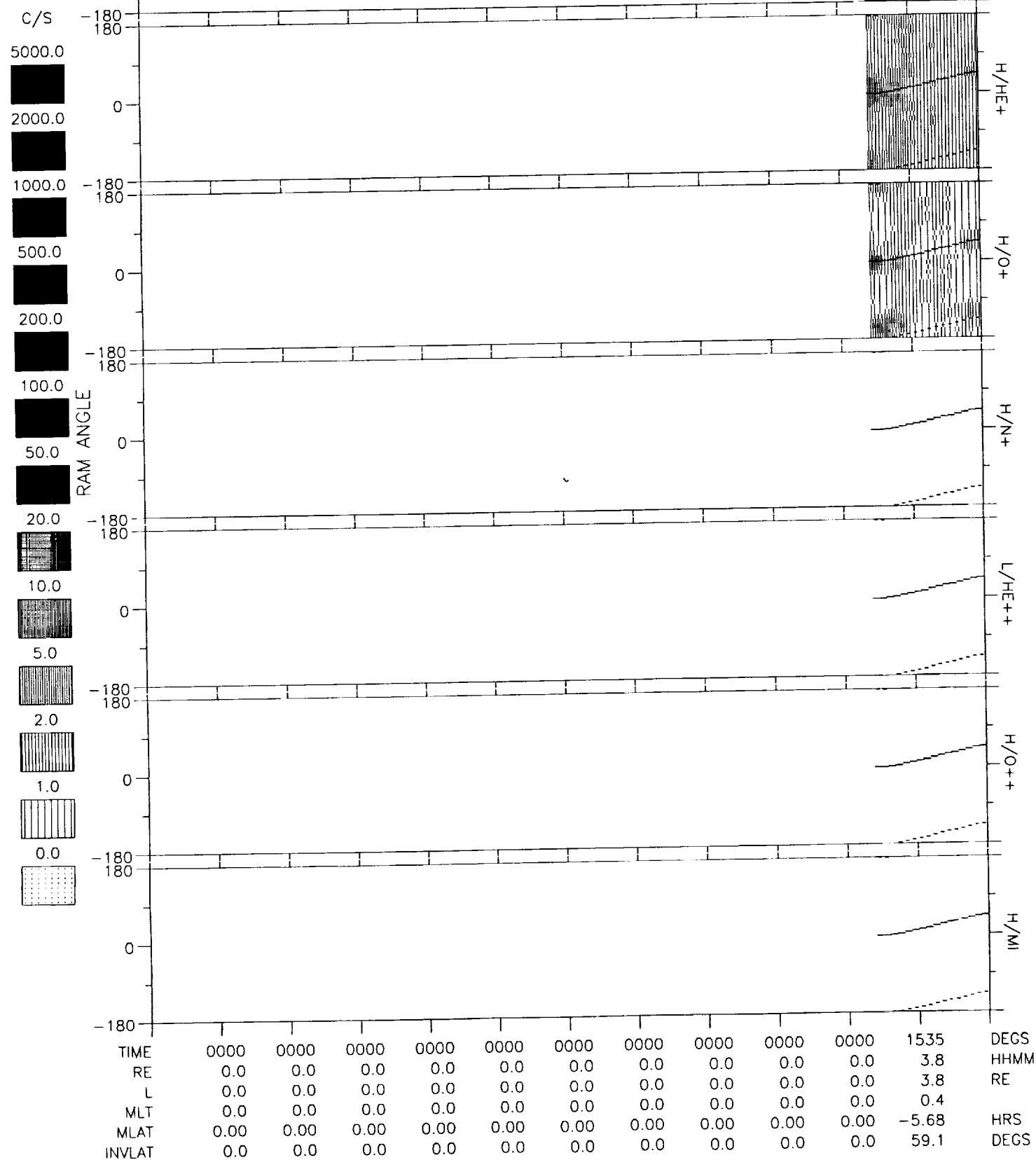
DE RIMS SPIN SUMMARY
SPIN-RADIAL (V1.0)
Thu Sep 9 11:52:55 1993

82/053 22-FEB 0100:00 - 0900:00 HEAD= RL RPA= 0 to 1000 BIAS= A



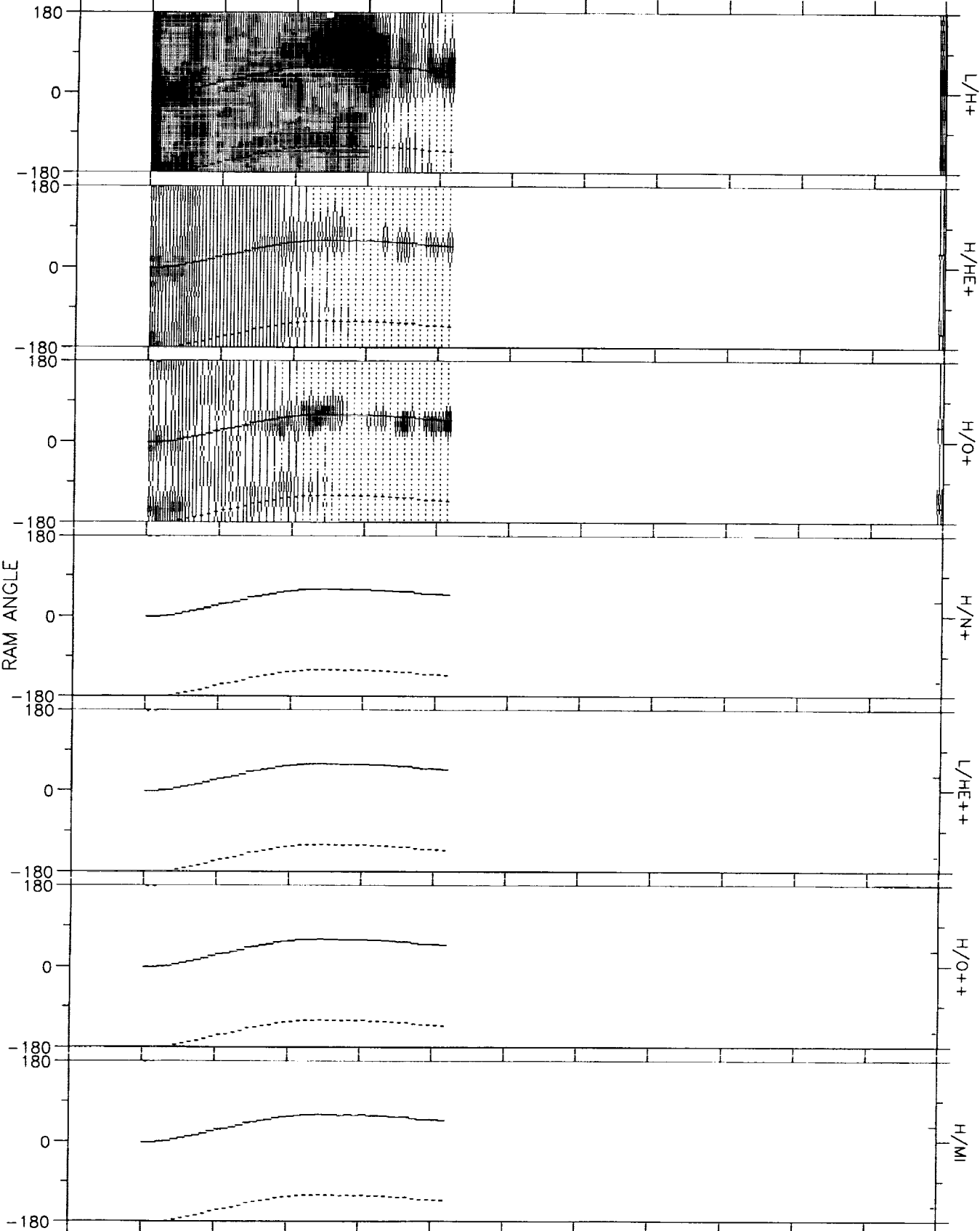
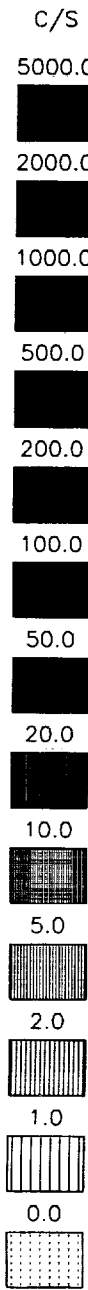
TIME	0140	0220	0000	0340	0420	0500	0540	0620	0000	0000	0000	DEGS
RE	3.6	4.2	0.0	4.7	4.5	4.1	3.3	2.2	0.0	0.0	0.0	HHMM
L	3.7	4.9	0.0	9.6	15.3	33.6	100.0	12.4	0.0	0.0	0.0	RE
MLT	0.3	0.4	0.0	0.6	0.6	0.5	22.5	13.0	0.0	0.0	0.0	HRS
MLAT	6.21	22.35	0.00	46.60	57.96	70.52	86.67	63.04	0.00	0.00	0.00	DEGS
INVLAT	58.5	63.1	0.0	71.2	75.2	80.1	87.7	73.5	0.0	0.0	0.0	

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Thu Sep 9 11:54:33 1993



DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Thu Sep 9 11:55:49 1993

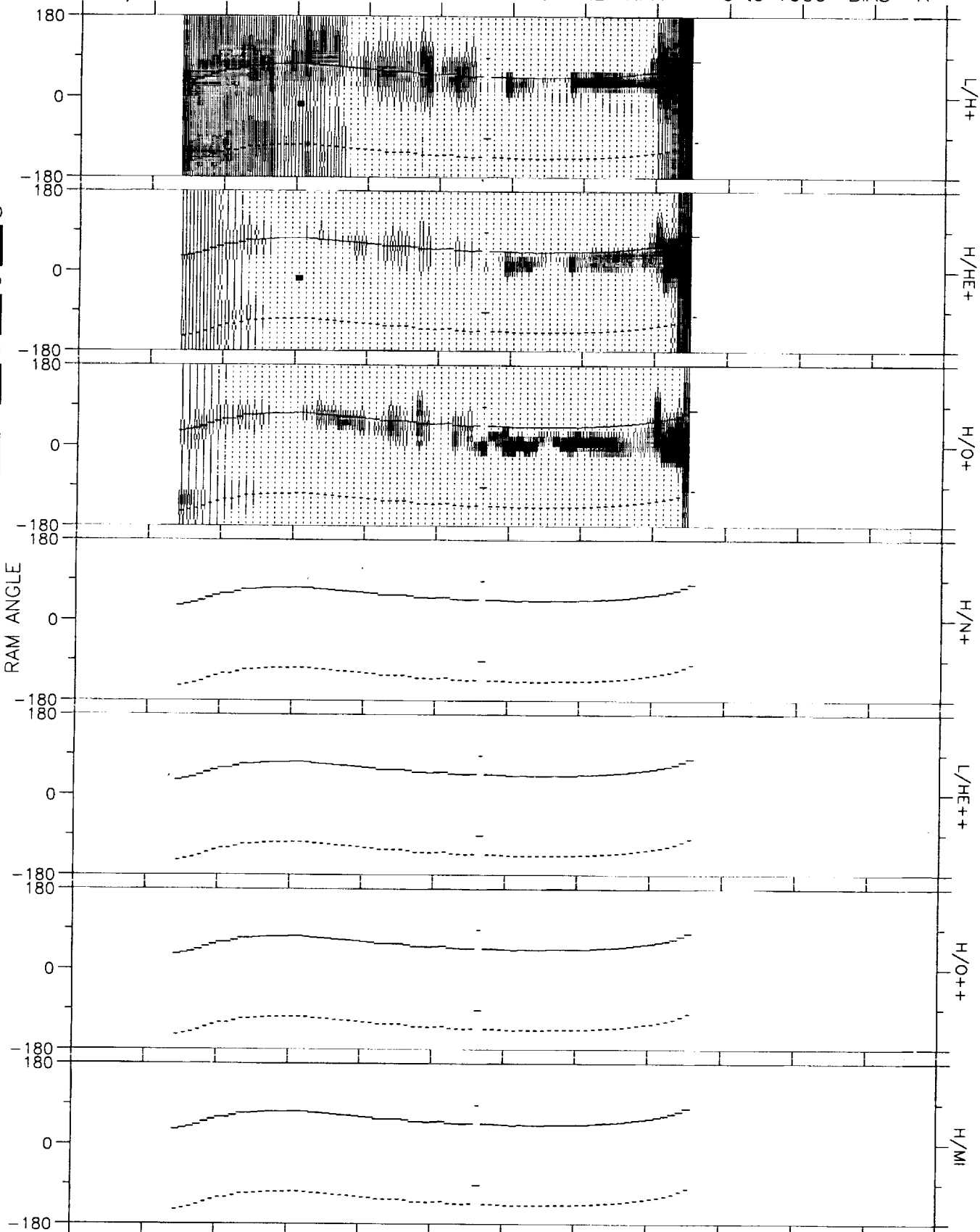
82/053 22-FEB 1430:00 - 2230:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1510	1550	1630	1710	1750	0000	0000	0000	0000	0000	0000	DEGS
RE	3.3	4.1	4.5	4.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	3.5	4.0	4.6	5.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	0.5	0.4	0.3	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	*****	-0.56	11.13	21.63	32.26	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	57.8	60.0	62.3	64.6	66.9	0.0	0.0	0.0	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Thu Sep 9 12:16:36 1993

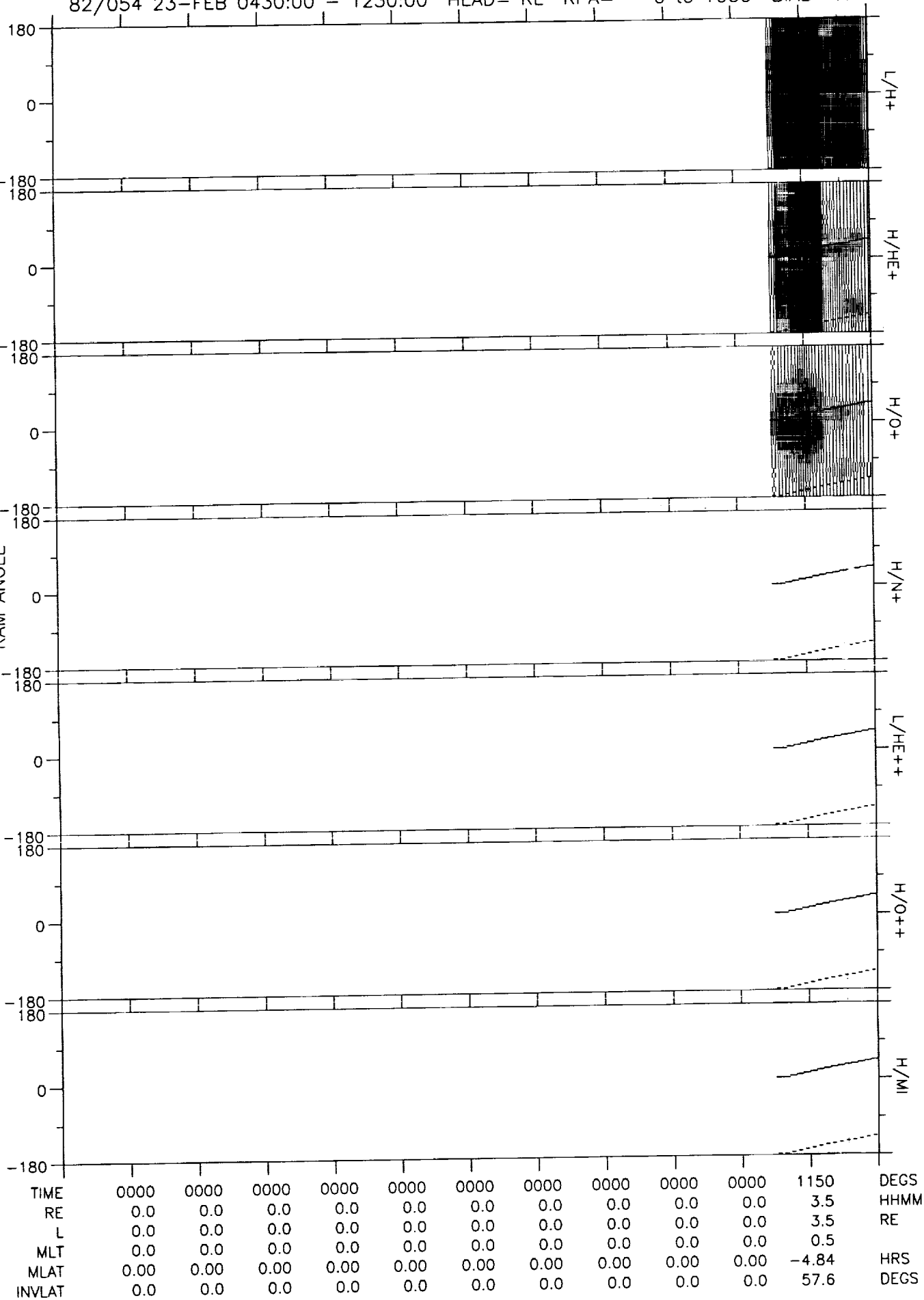
82/053 22-FEB 2130:00 - 0530:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	2250	2330	0010	0050	0130	0210	0250	0000	0000	0000	DEGS
RE	0.0	4.2	4.6	4.7	4.5	4.1	3.4	2.3	0.0	0.0	0.0	HHMM
L	0.0	4.4	5.4	7.2	10.2	18.2	75.7	17.2	0.0	0.0	0.0	RE
MLT	0.0	0.4	0.6	0.8	1.0	1.4	3.3	11.2	0.0	0.0	0.0	
MLAT	0.00	11.95	25.06	37.59	49.80	63.17	78.94	66.78	0.00	0.00	0.00	HRS
INVLAT	0.0	61.4	64.7	68.1	71.8	76.4	83.4	76.0	0.0	0.0	0.0	DEGS

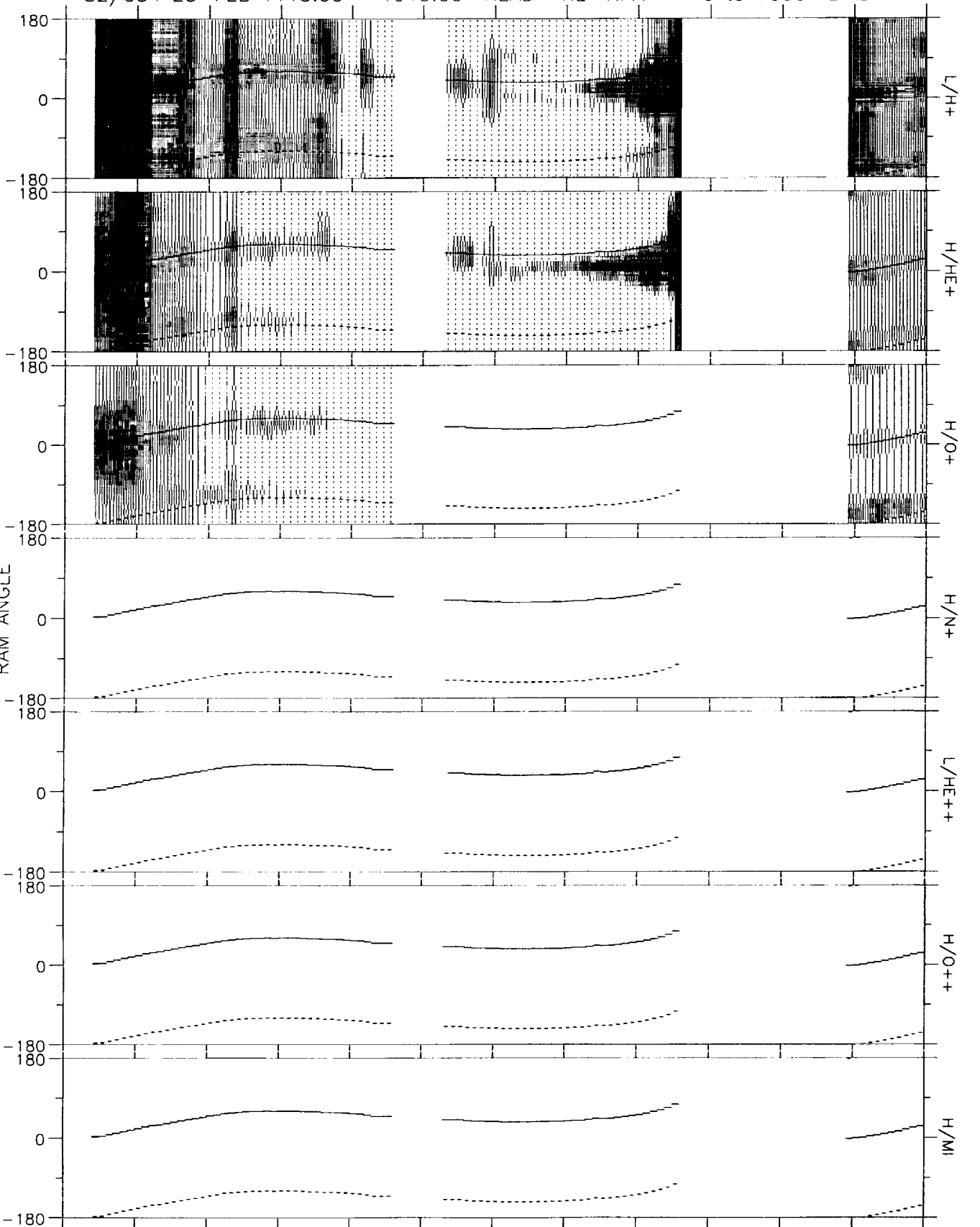
DE RMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Thu Sep 9 12:18:28 1993

82/054 23-FEB 0430:00 - 1230:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Thu Sep 9 12:19:52 1993

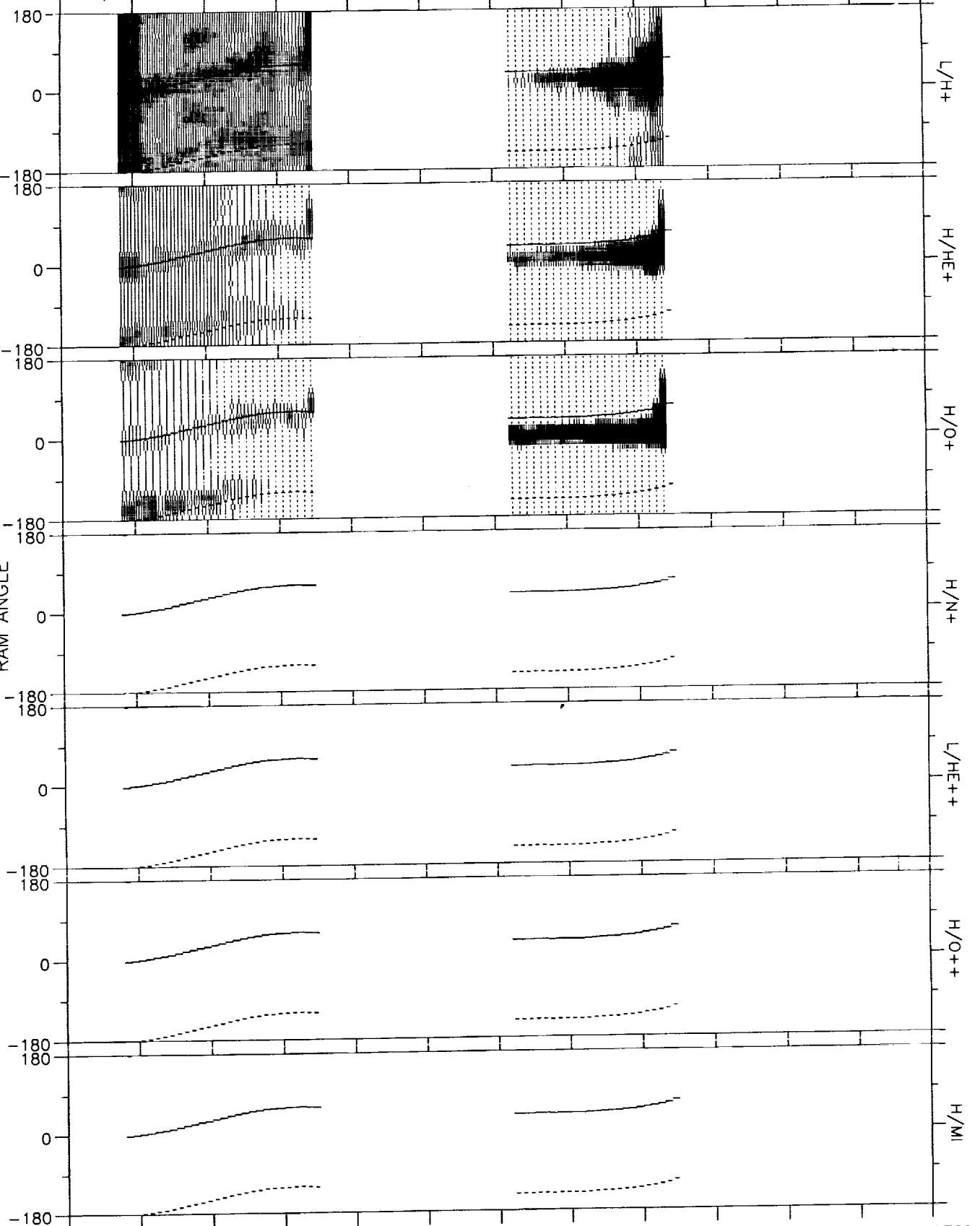
82/054 23-FEB 1115:00 - 1915:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1155	1235	1315	1355	0000	1515	1555	1635	0000	0000	1835	DEGS
RE	3.6	4.2	4.6	4.7	0.0	4.0	3.3	2.2	0.0	0.0	3.4	HHMM
L	3.6	4.3	5.1	6.0	0.0	9.6	20.0	100.0	0.0	0.0	3.6	RE
MLT	0.4	0.2	0.1	0.0	0.0	23.9	23.8	13.3	0.0	0.0	0.2	
MLAT	-2.90	9.58	19.20	28.04	0.00	48.65	64.63	84.34	0.00	0.00	*****	HRS
INVLAT	58.0	61.1	63.6	65.8	0.0	71.2	77.1	84.8	0.0	0.0	58.0	DEGS

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Thu Sep 9 12:21:54 1993

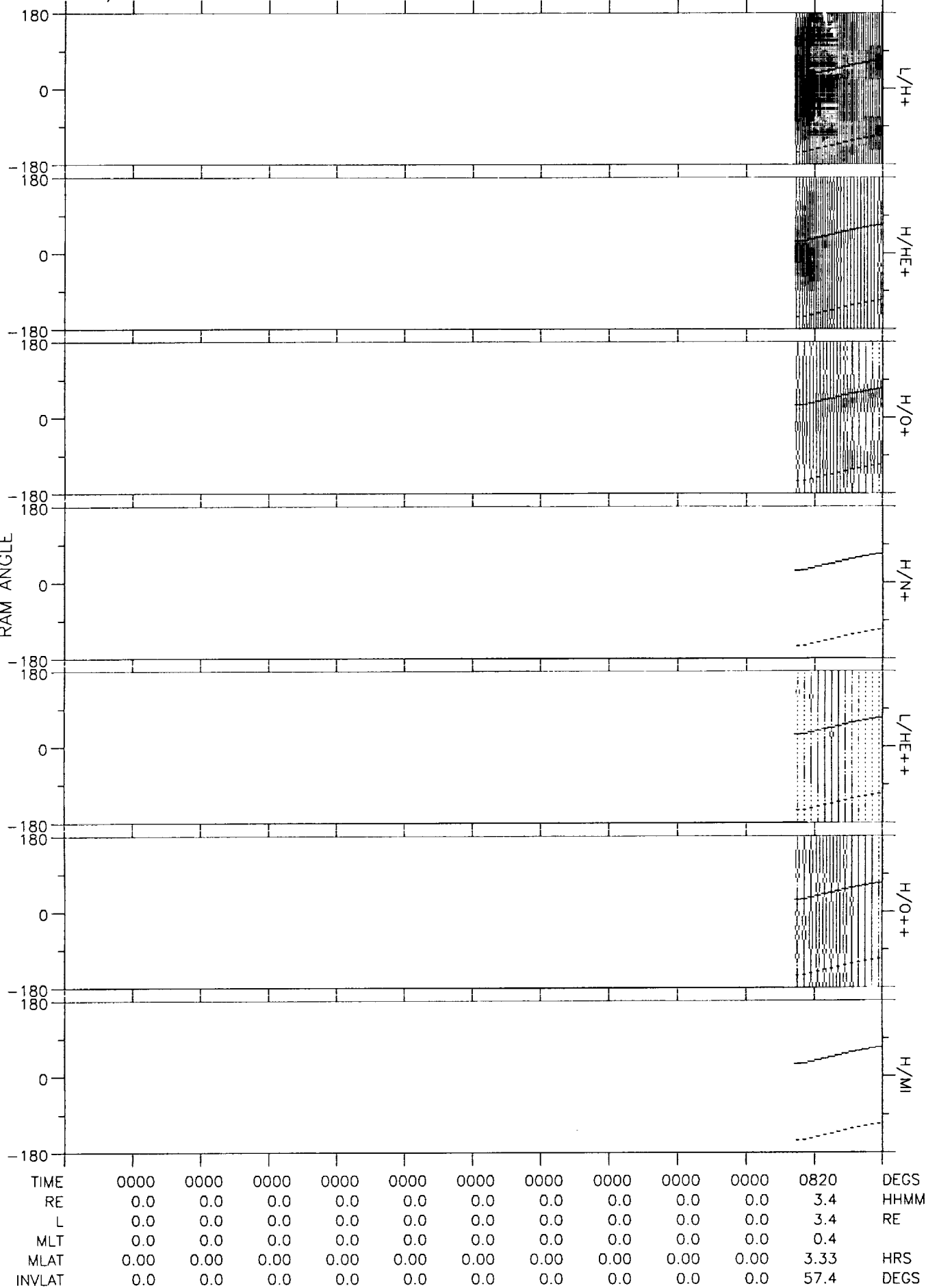
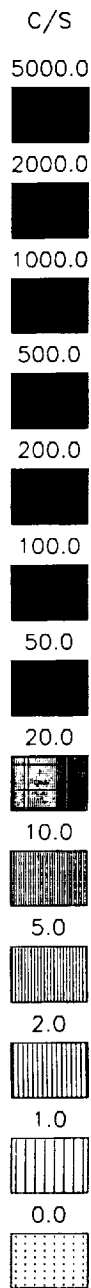
82/054 23-FEB 1800:00 - 0200:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1840	1920	2000	0000	0000	0000	2240	2320	0000	0000	0000	DEGS
RE	3.5	4.2	4.5	0.0	0.0	0.0	3.4	2.3	0.0	0.0	0.0	HHMM
L	3.6	4.1	4.9	0.0	0.0	0.0	25.3	39.1	0.0	0.0	0.0	RE
MLT	0.2	0.3	0.4	0.0	0.0	0.0	2.2	9.1	0.0	0.0	0.0	HRS
MLAT	*****	2.53	15.47	0.00	0.00	0.00	68.38	74.28	0.00	0.00	0.00	DEGS
INVLAT	58.2	60.5	63.1	0.0	0.0	0.0	78.5	80.8	0.0	0.0	0.0	

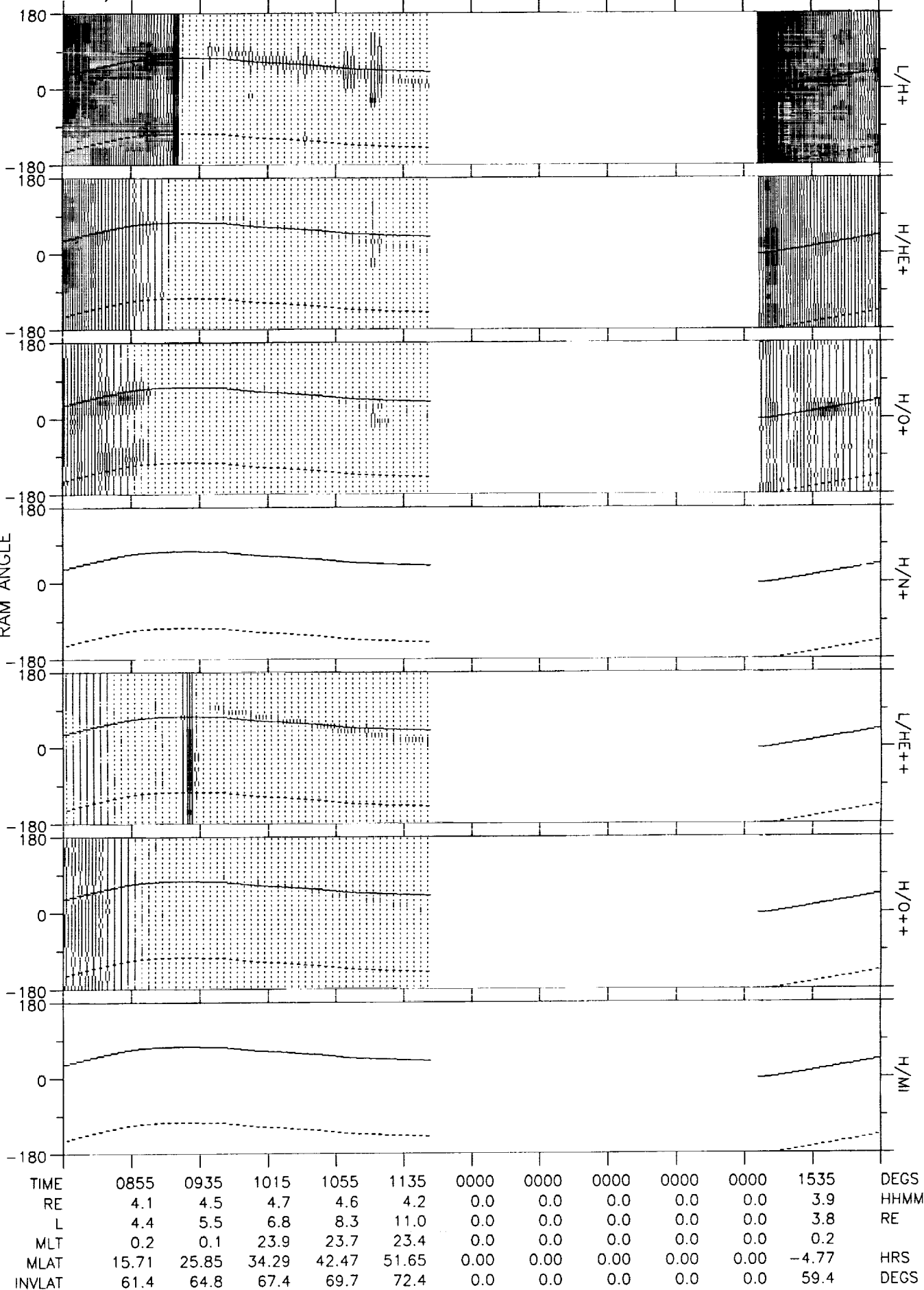
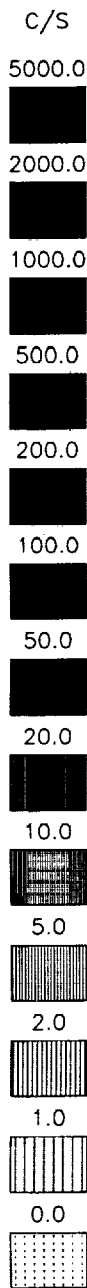
DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Thu Sep 9 12:23:30 1993

82/055 24-FEB 0100:00 - 0900:00 HEAD= RL RPA= 0 to 1000 BIAS= A



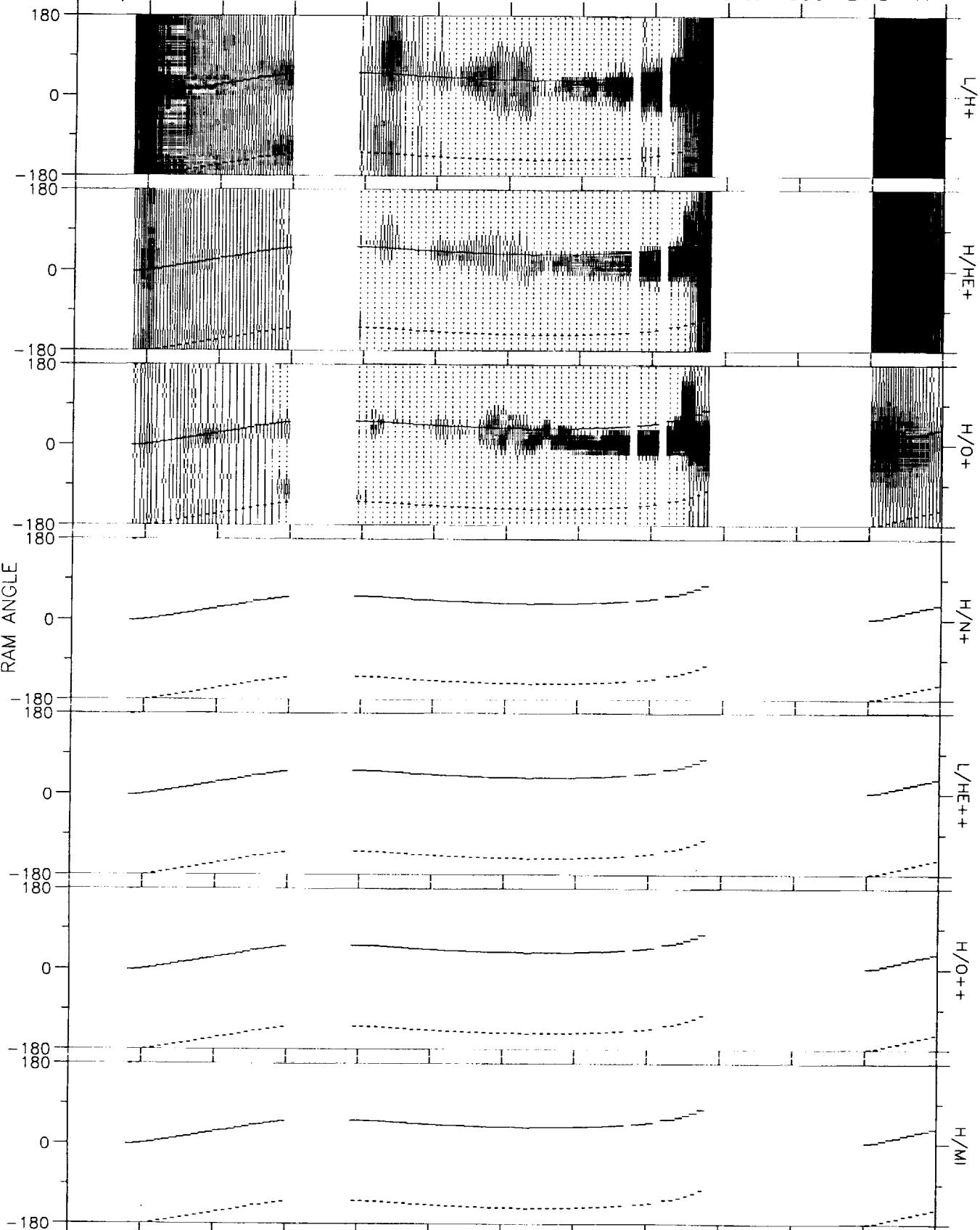
DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Thu Sep 9 12:24:47 1993

82/055 24-FEB 0815:00 - 1615:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN-RADIAL (V1.0)
Thu Sep 9 14:53:05 1993

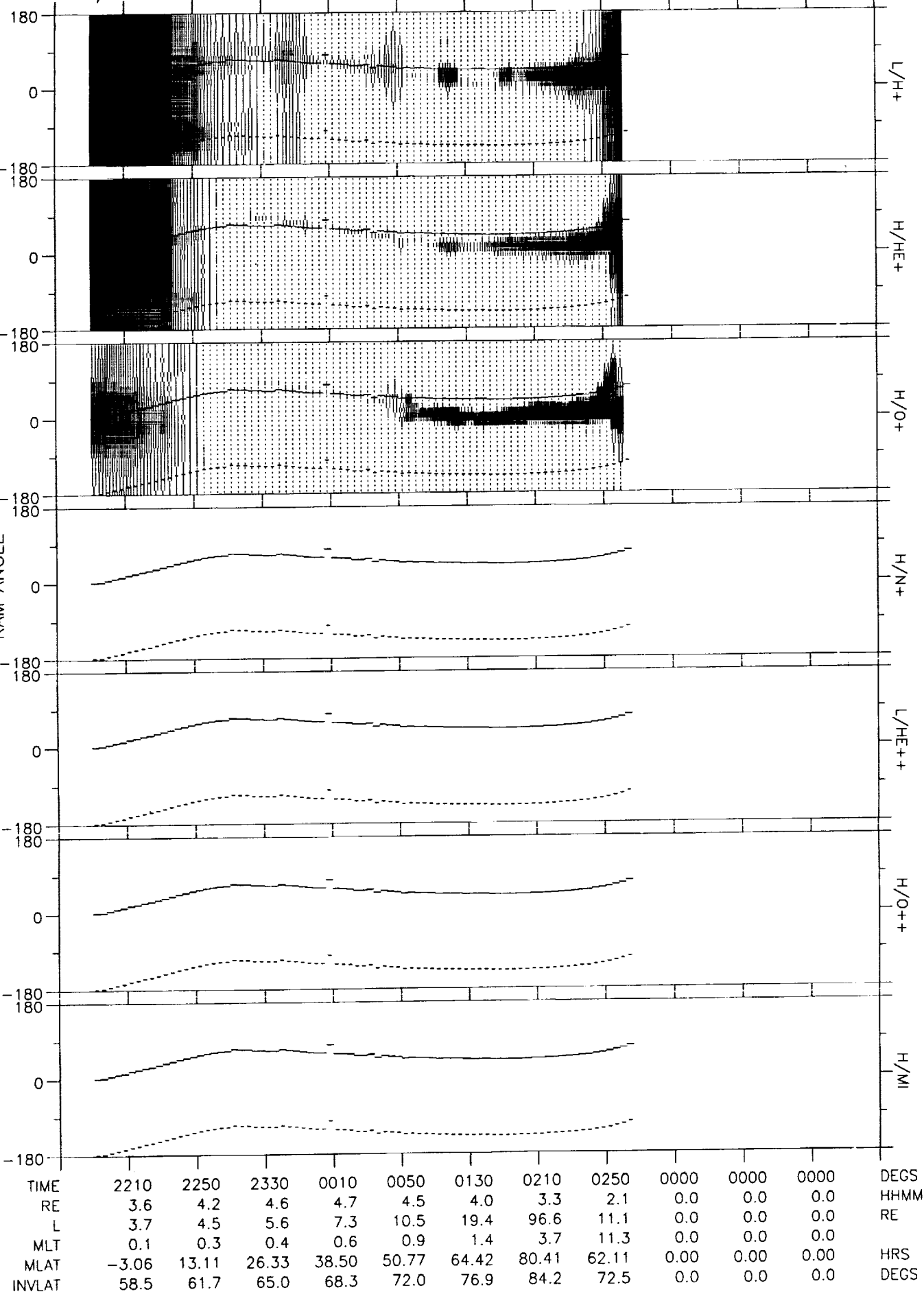
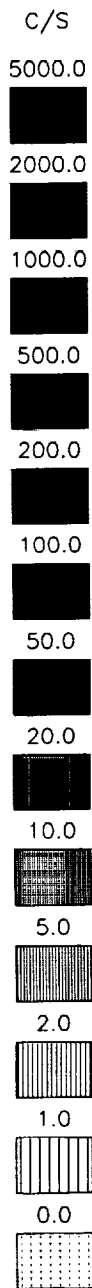
82/055 24-FEB 1430:00 - 2230:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1510	1550	0000	1710	1750	1830	1910	1950	0000	0000	2150	DEGS
RE	3.4	4.1	0.0	4.7	4.5	4.2	3.5	2.5	0.0	0.0	3.2	HHMM
L	3.6	4.1	0.0	5.5	6.6	8.7	16.0	100.0	0.0	0.0	3.4	RE
MLT	0.3	0.2	0.0	0.2	0.3	0.5	1.0	4.3	0.0	0.0	24.0	
MLAT	*****	0.21	0.00	22.18	32.92	45.18	61.05	81.44	0.00	0.00	*****	HRS
INVLAT	58.1	60.2	0.0	64.7	67.1	70.2	75.5	85.7	0.0	0.0	57.3	DEGS

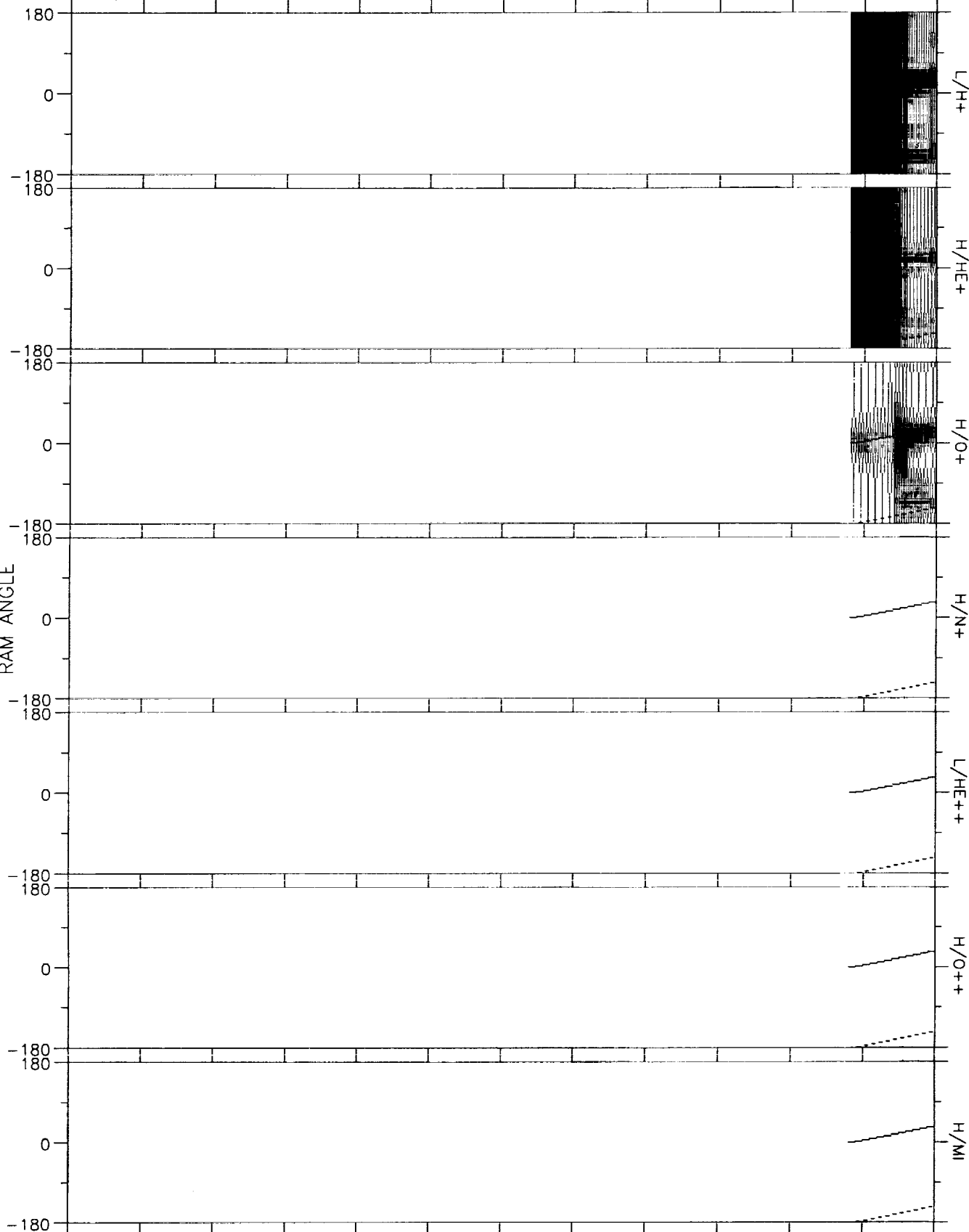
DE RMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Thu Sep 9 14:55:45 1993

82/055 24-FEB 2130:00 - 0530:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Thu Sep 9 14:57:53 1993

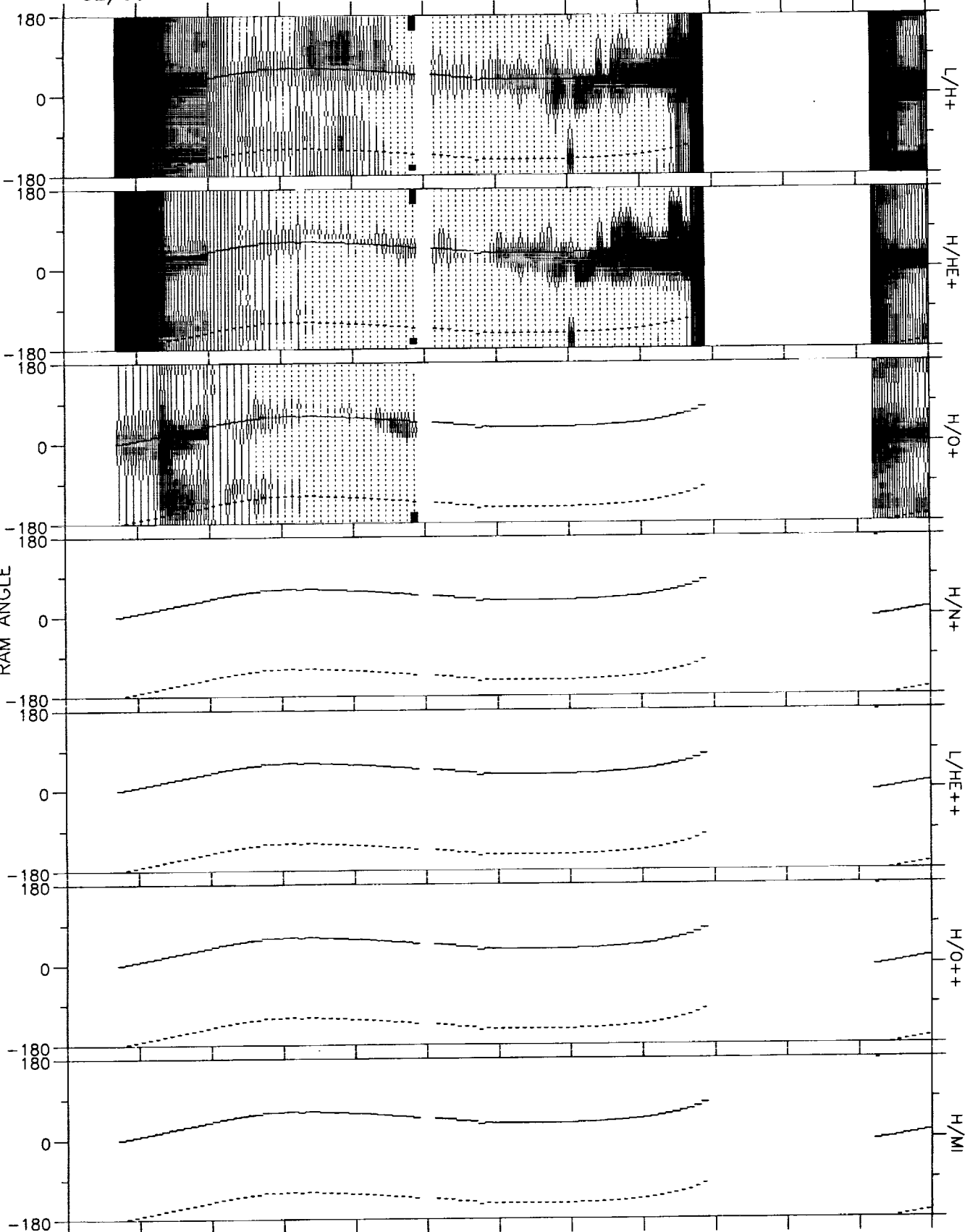
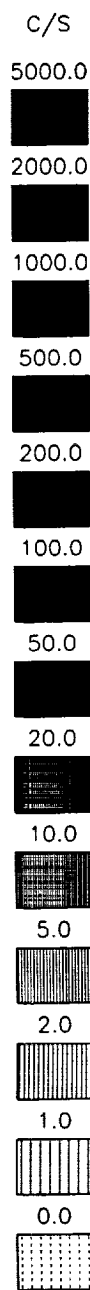
82/056 25-FEB 0415:00 - 1215:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	1135	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.9	DEGS

DE RIMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Thu Sep 9 14:59:25 1993

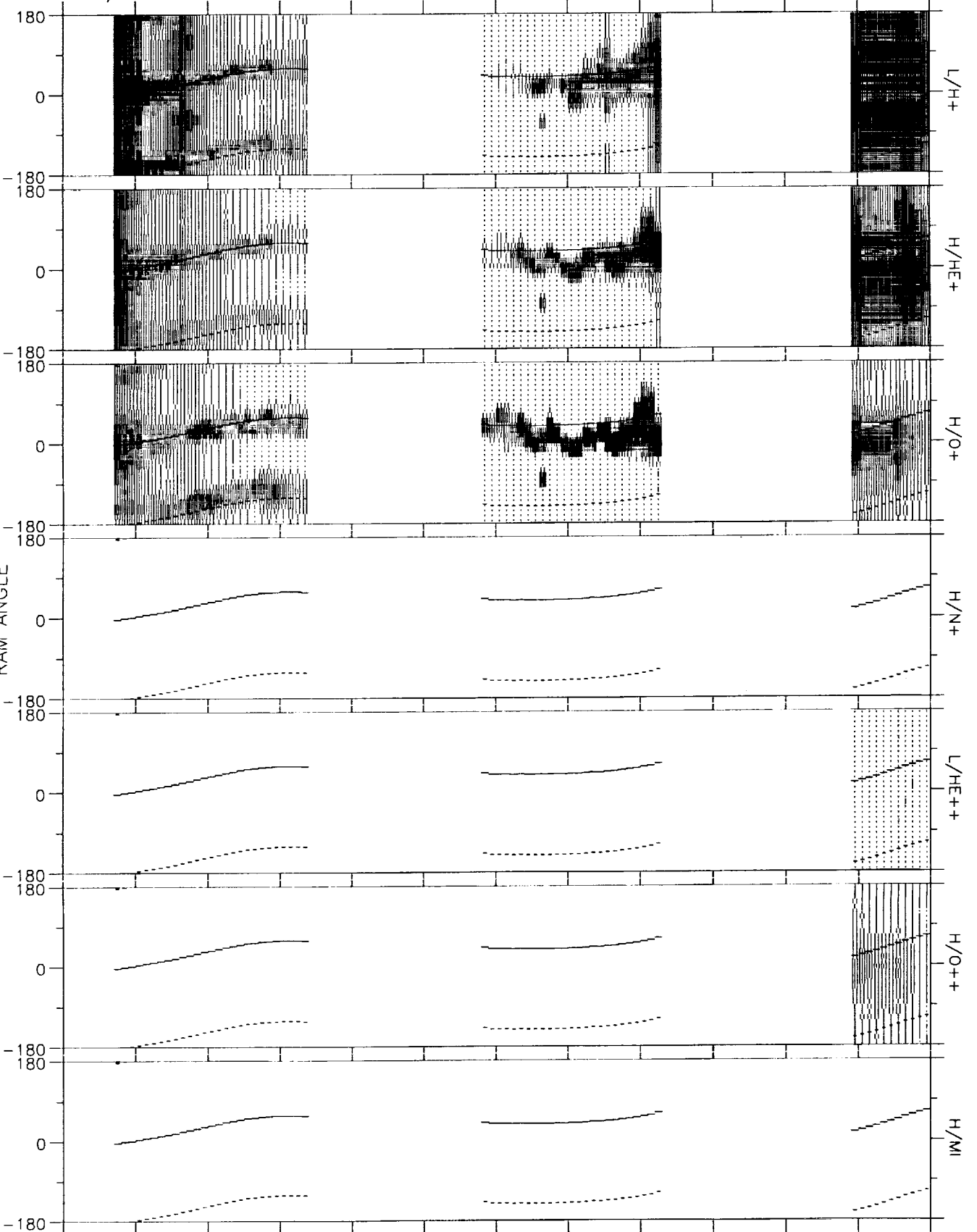
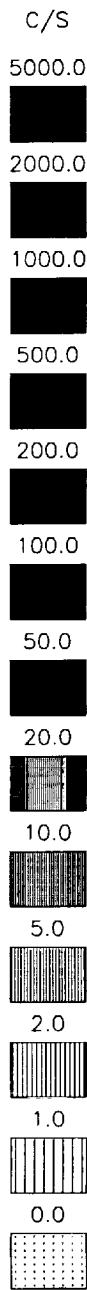
82/056 25-FEB 1100:00 - 1900:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1140	1220	1300	1340	0000	1500	1540	1620	0000	0000	0000	DEGS
RE	3.4	4.1	4.5	4.7	0.0	4.2	3.6	2.5	0.0	0.0	0.0	HHMM
L	3.4	4.1	4.8	5.6	0.0	8.5	13.5	100.0	0.0	0.0	0.0	RE
MLT	0.4	0.2	0.0	23.9	0.0	23.8	23.8	23.1	0.0	0.0	0.0	
MLAT	-7.91	5.96	16.07	24.98	0.00	44.71	57.69	83.58	0.00	0.00	0.00	HRS
INVLAT	57.2	60.3	62.9	65.1	0.0	70.0	74.2	86.8	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPINRADIAL_ALL (V1.0)
Thu Sep 9 15:04:34 1993

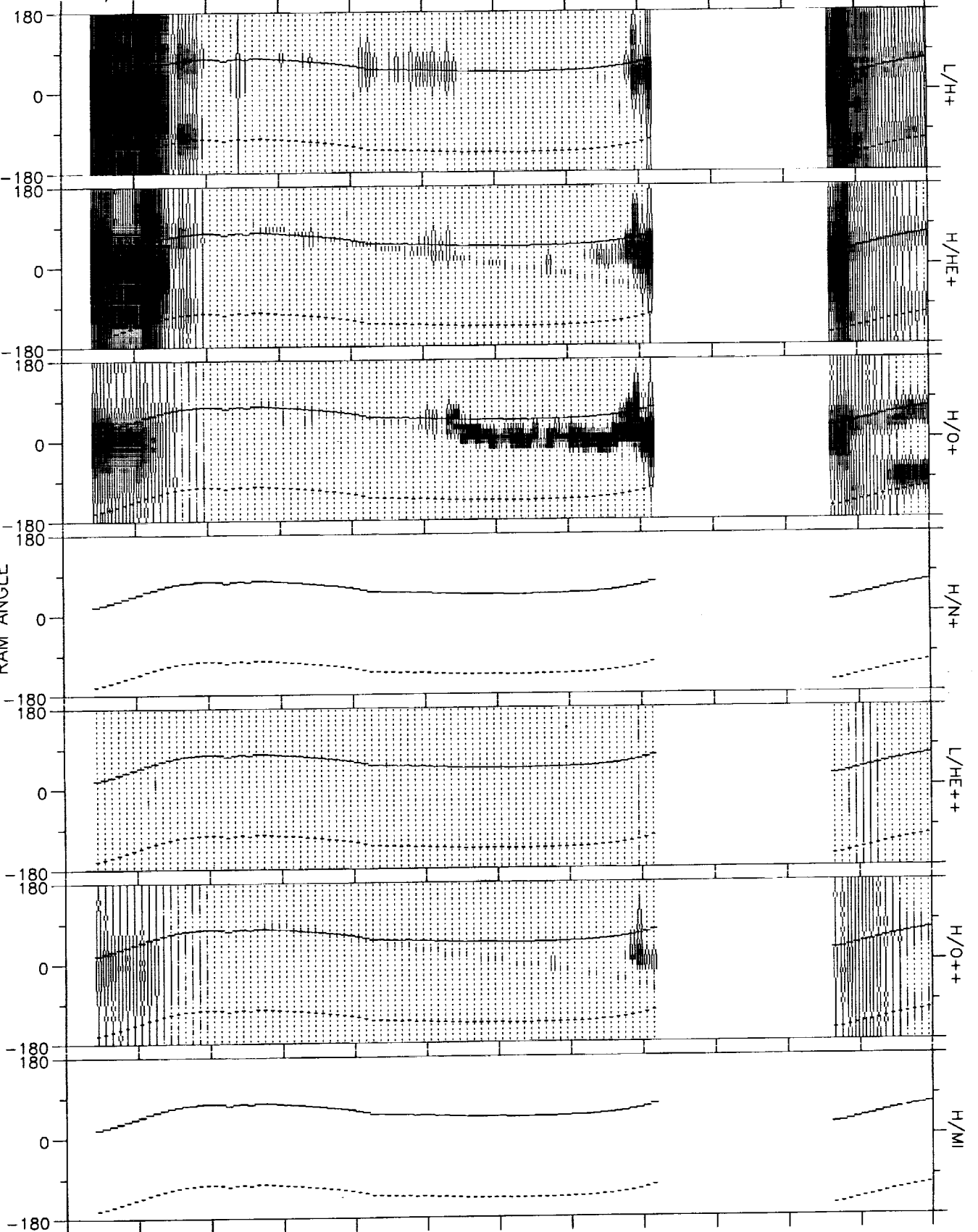
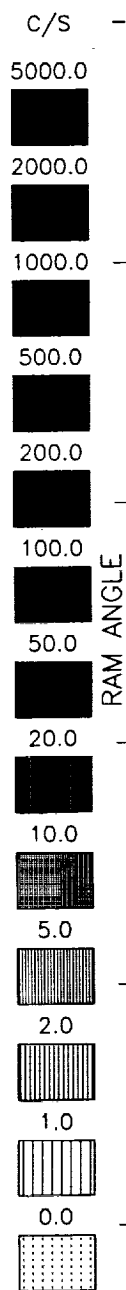
82/056 25-FEB 1800:00 - 0200:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1840	1920	2000	0000	0000	2200	2240	2320	0000	0000	0120	DEGS
RE	3.6	4.2	4.6	0.0	0.0	4.1	3.3	2.2	0.0	0.0	3.3	HHMM
L	3.7	4.2	5.0	0.0	0.0	11.4	28.7	22.7	0.0	0.0	3.4	RE
MLT	0.1	0.2	0.3	0.0	0.0	1.1	2.3	9.7	0.0	0.0	24.0	
MLAT	*****	3.60	16.31	0.00	0.00	53.55	70.03	70.64	0.00	0.00	-0.21	HRS
INVLAT	58.5	60.8	63.3	0.0	0.0	72.8	79.2	77.9	0.0	0.0	57.3	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Thu Sep 9 15:16:42 1993

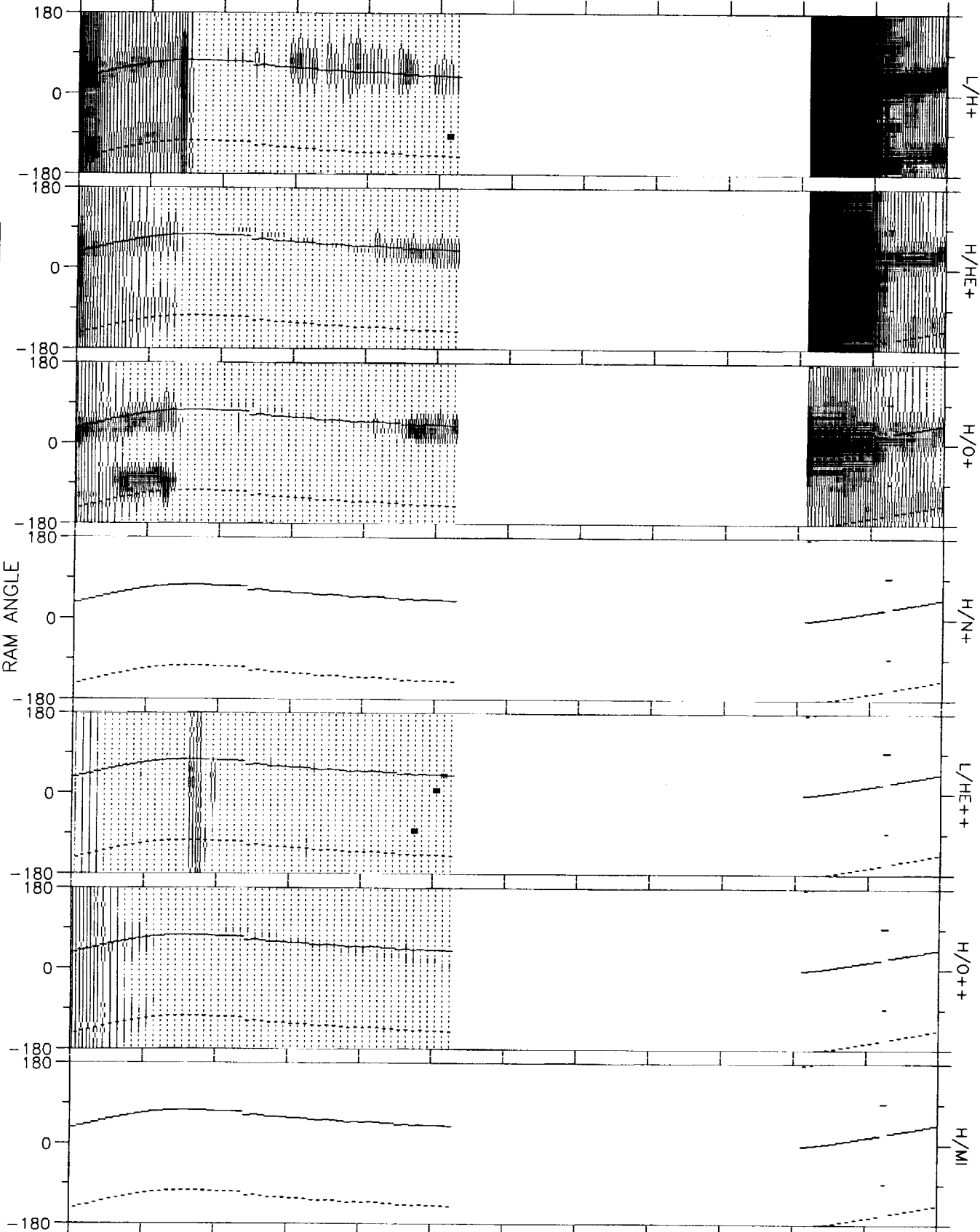
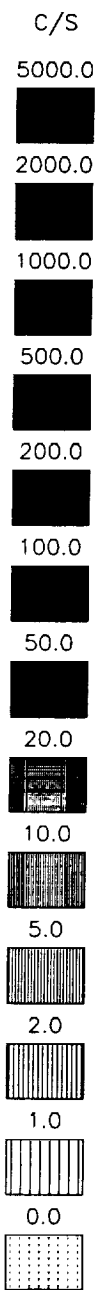
82/057 26-FEB 0100:00 - 0900:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0140	0220	0300	0340	0420	0500	0540	0620	0000	0000	0820	DEGS
RE	3.8	4.3	4.6	4.7	4.4	3.9	3.1	1.9	0.0	0.0	3.5	HHMM
L	3.9	5.2	7.1	10.1	16.4	39.8	100.0	5.6	0.0	0.0	3.6	RE
MLT	0.1	0.2	0.3	0.3	0.3	0.1	17.1	12.6	0.0	0.0	0.3	HRS
MLAT	9.42	24.45	36.75	48.04	59.48	72.53	87.75	51.95	0.00	0.00	4.54	DEGS
INVLAT	59.5	63.9	67.9	71.7	75.7	80.9	89.3	64.9	0.0	0.0	58.0	

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Thu Sep 9 15:22:19 1993

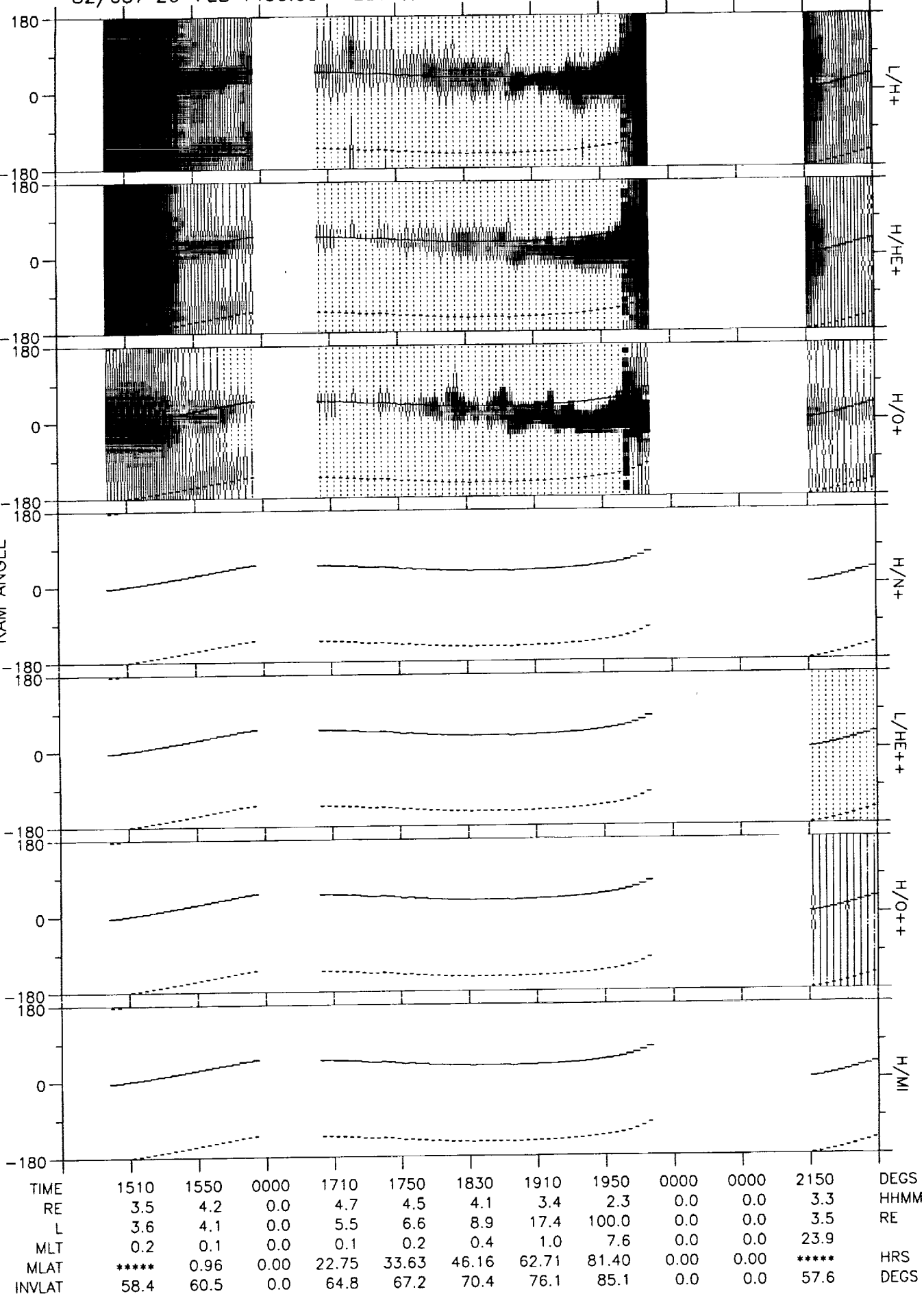
82/057 26-FEB 0815:00 - 1615:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0855	0935	1015	1055	1135	0000	0000	0000	0000	0000	1535	DEGS
RE	4.1	4.5	4.7	4.5	4.2	0.0	0.0	0.0	0.0	0.0	4.0	HHMM
L	4.5	5.6	6.8	8.3	11.1	0.0	0.0	0.0	0.0	0.0	3.9	RE
MLT	0.1	23.9	23.7	23.5	23.2	0.0	0.0	0.0	0.0	0.0	0.1	
MLAT	16.23	26.07	34.42	42.64	52.06	0.00	0.00	0.00	0.00	0.00	-3.85	HRS
INVLAT	61.7	64.9	67.4	69.7	72.5	0.0	0.0	0.0	0.0	0.0	59.7	DEGS

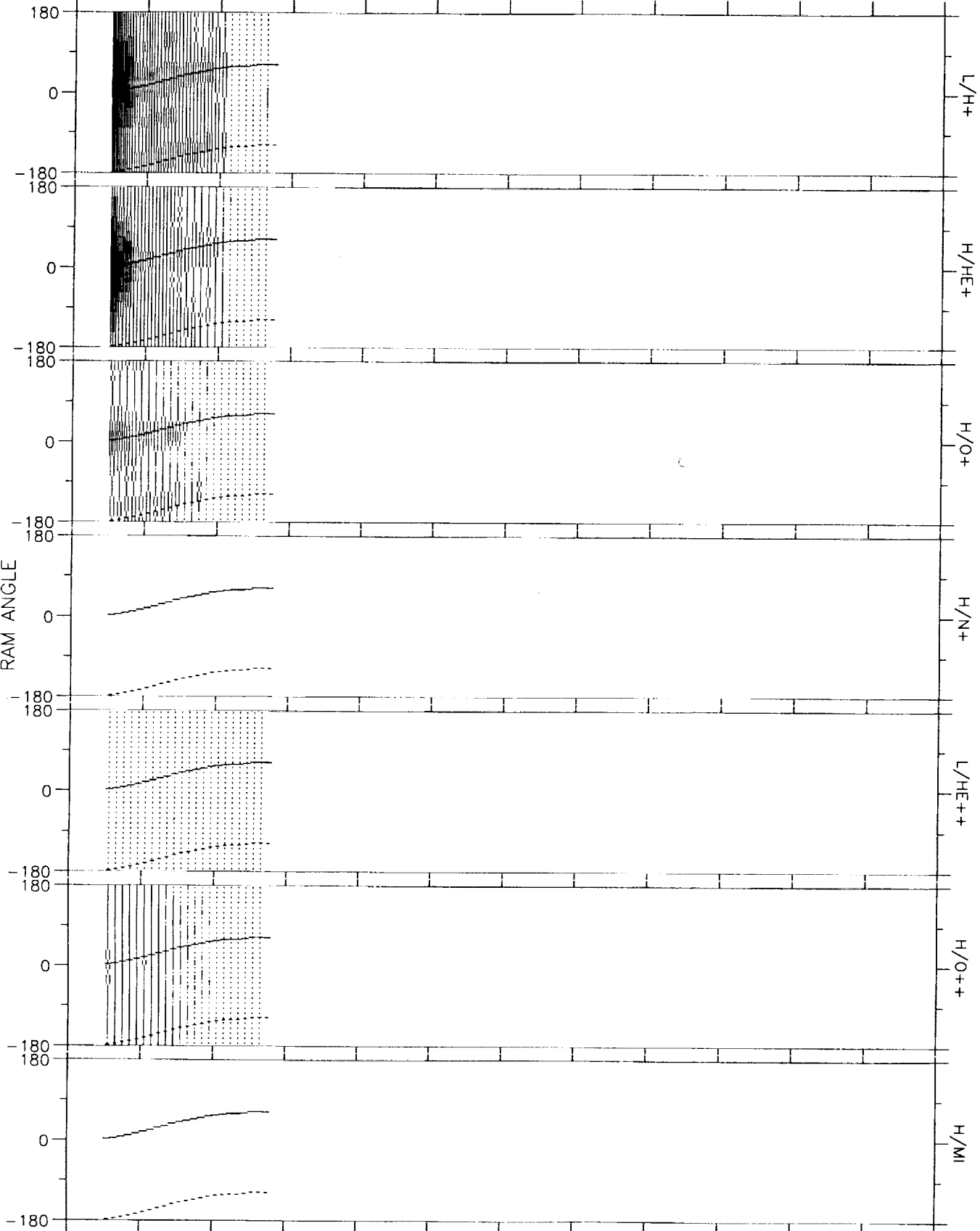
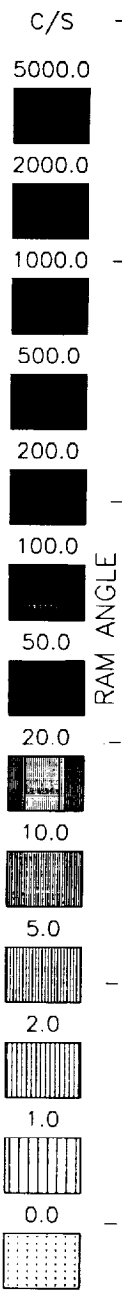
DE RMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Thu Sep 9 15:47:24 1993

82/057 26-FEB 1430:00 - 2230:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Thu Sep 9 15:54:53 1993

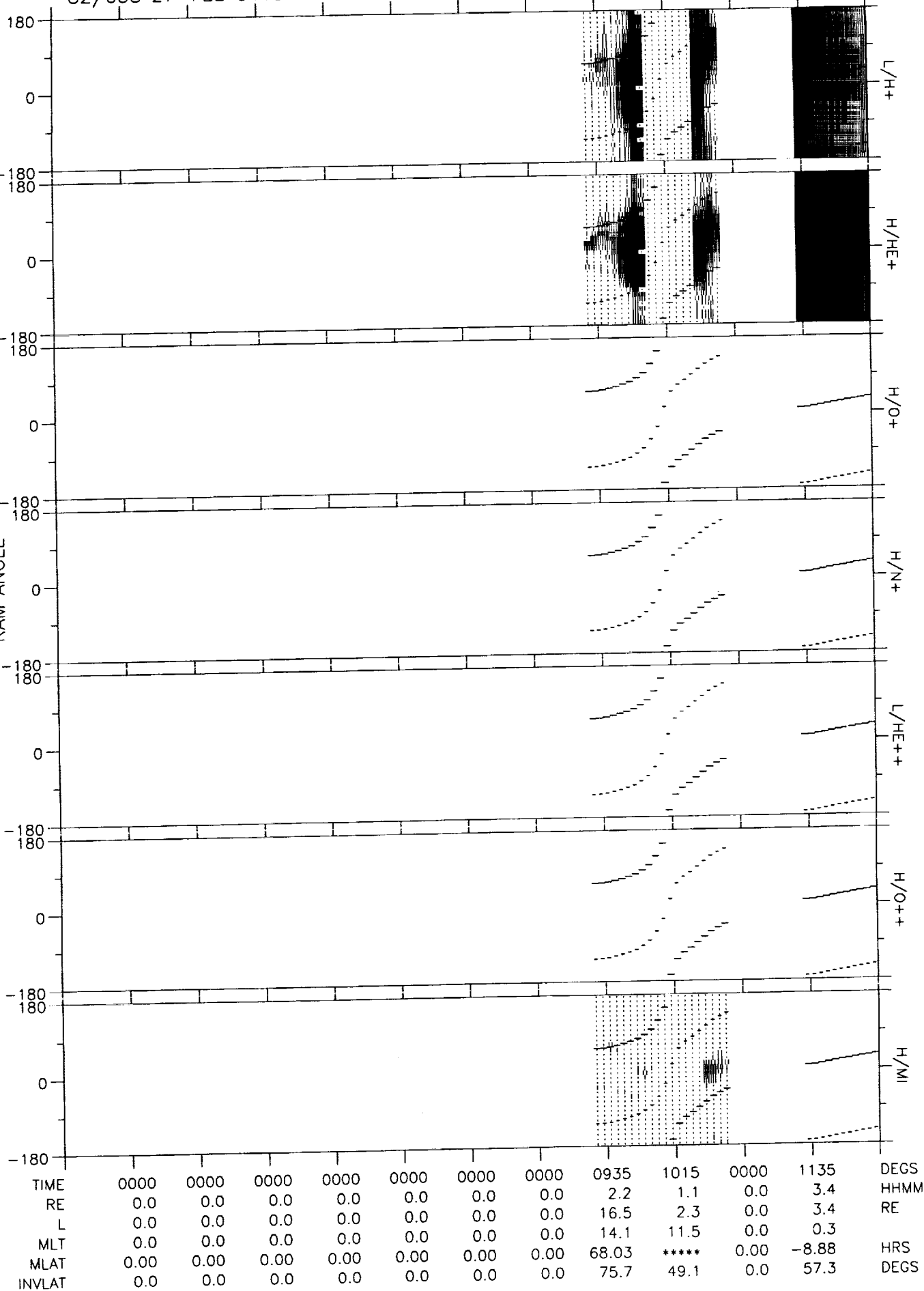
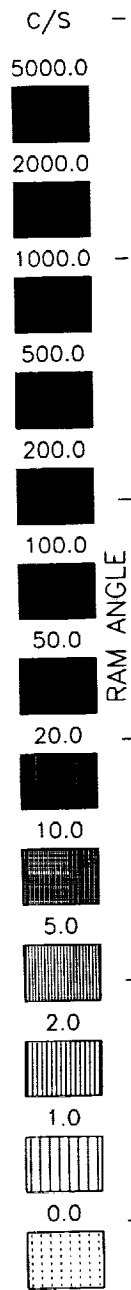
82/057 26-FEB 2130:00 - 0530:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	2210	2250	0000	0000	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	3.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	3.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	24.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	-1.39	14.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	58.9	62.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS

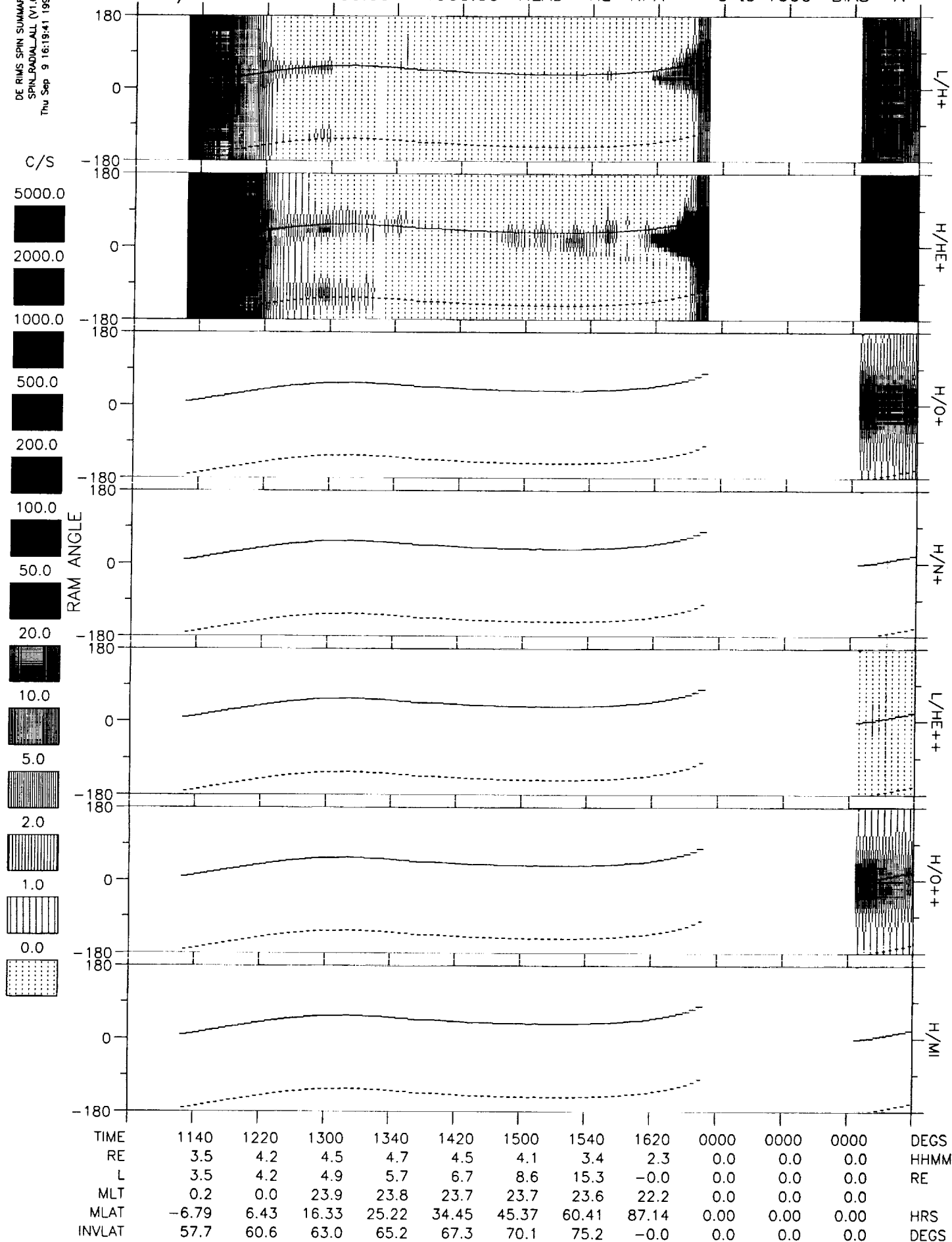
DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Thu Sep 9 16:09:33 1993

82/058 27-FEB 0415:00 - 1215:00 HEAD= RL RPA= 0 to 1000 BIAS= A



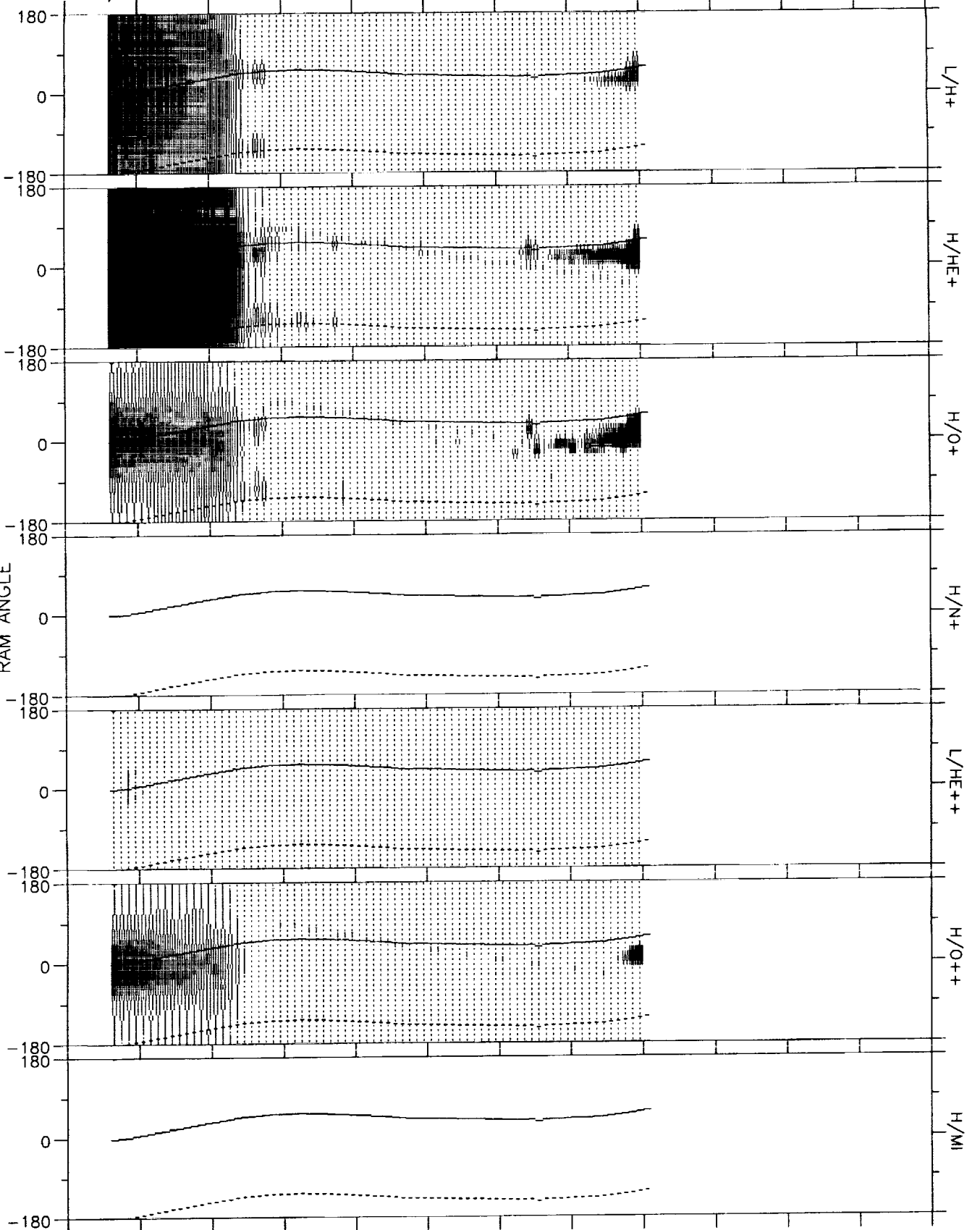
DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Thu Sep 9 16:19:41 1993

82/058 27-FEB 1100:00 - 1900:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN-RADIAL (V1.0)
Thu Sep 9 16:29:36 1993

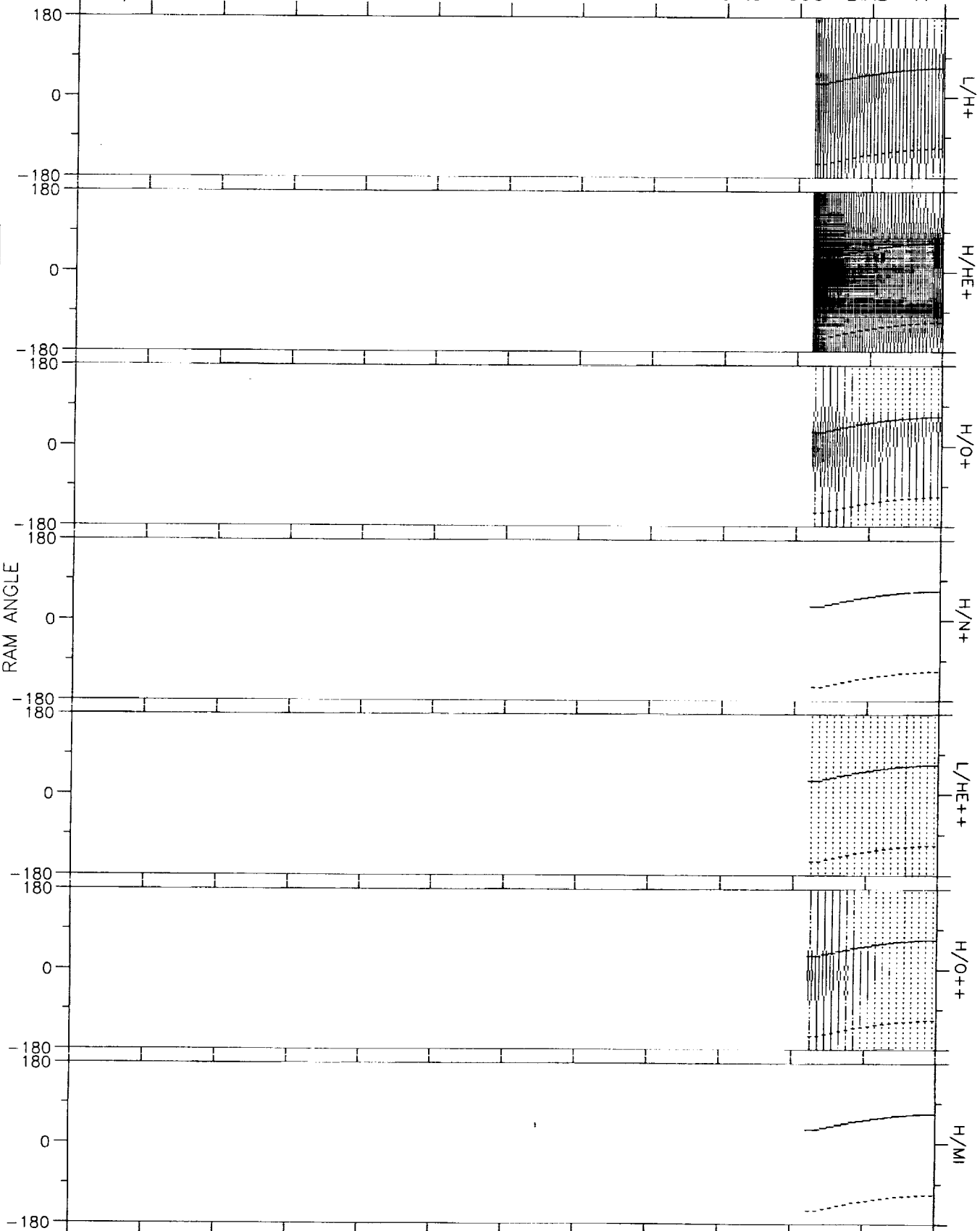
82/058 27-FEB 1800:00 - 0200:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1840	1920	2000	2040	2120	2200	2240	2320	0000	0000	0000	DEGS
RE	3.7	4.3	4.6	4.7	4.5	4.0	3.2	2.2	0.0	0.0	0.0	HHMM
L	3.7	4.3	5.0	6.1	7.8	11.8	33.2	22.4	0.0	0.0	0.0	RE
MLT	24.0	0.1	0.2	0.4	0.6	1.1	2.5	9.6	0.0	0.0	0.0	HRS
MLAT	*****	4.59	17.14	28.90	41.02	54.73	71.72	70.55	0.00	0.00	0.00	DEGS
INVLAT	58.8	61.1	63.5	66.1	69.0	73.1	80.0	77.8	0.0	0.0	0.0	

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Thu Sep 9 16:40:45 1993

82/059 28-FEB 0115:00 - 0915:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0835	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.83	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.1	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL.ALL (V1.0)
Thu Sep 9 16:42:42 1993

82/059 28-FEB 0730:00 - 1530:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

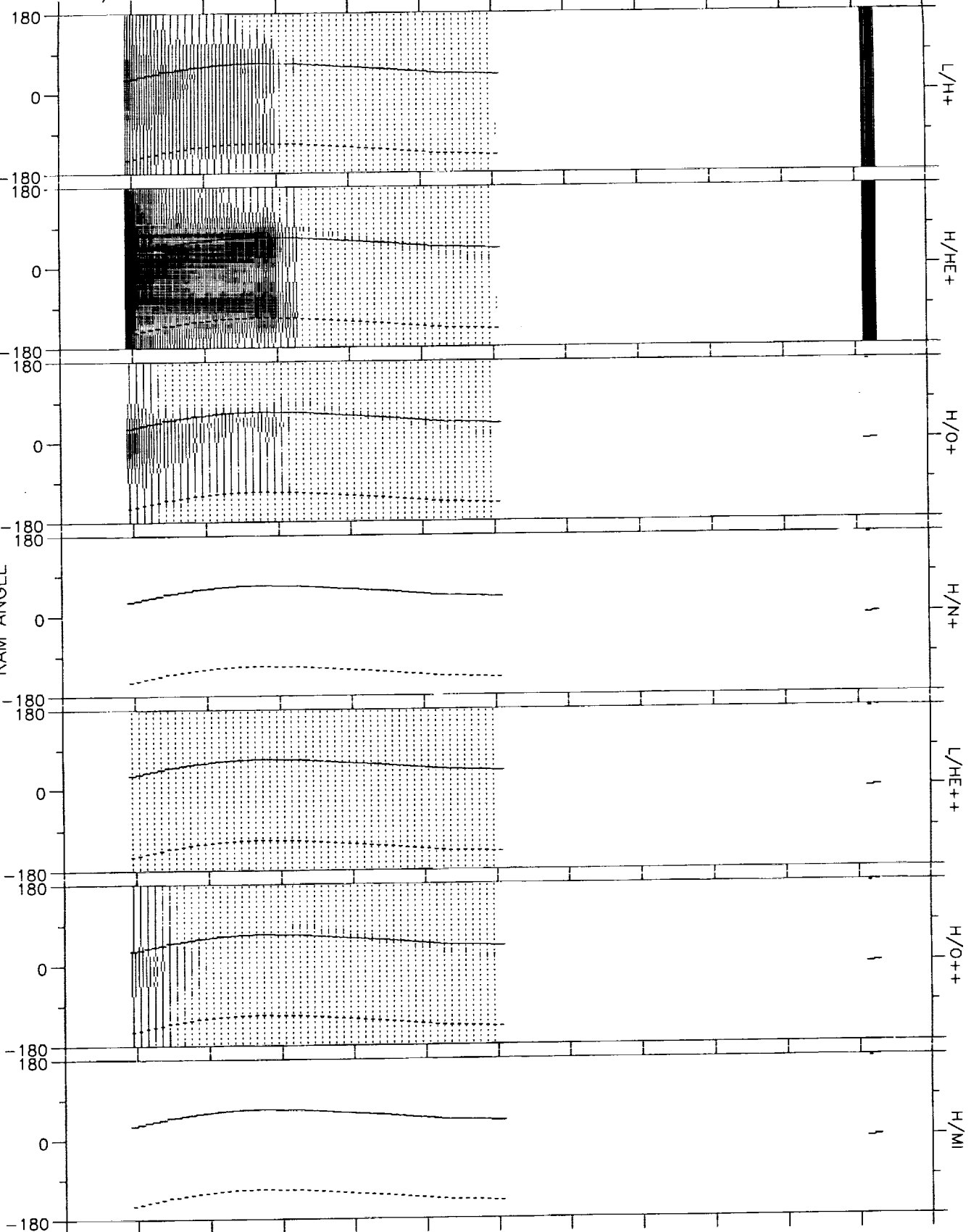
5.0

2.0

1.0

0.0

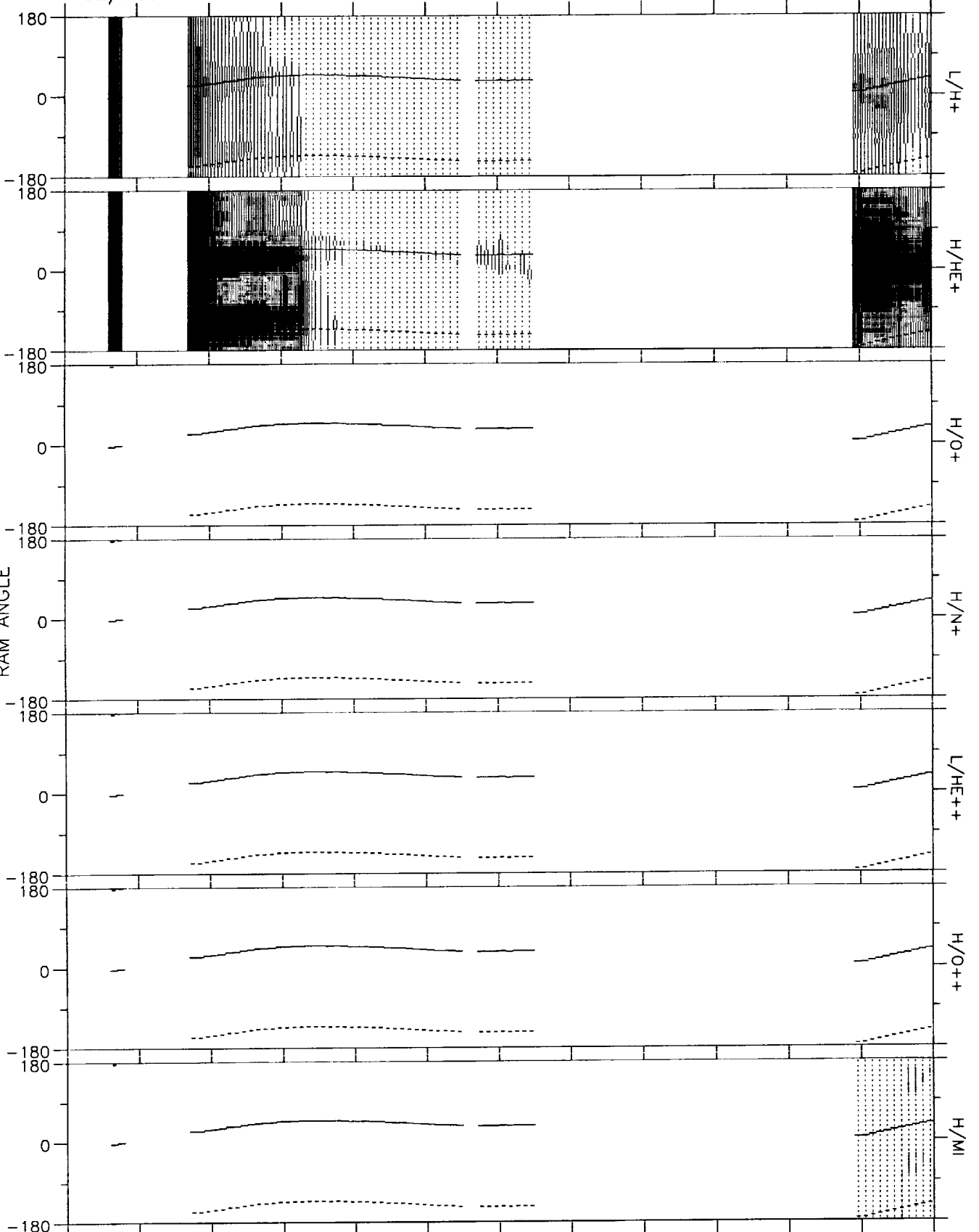
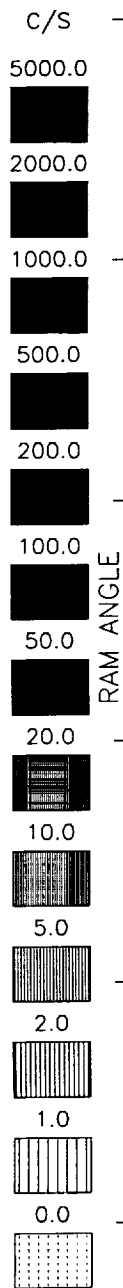
RAM ANGLE



TIME	0810	0850	0930	1010	1050	1130	0000	0000	0000	0000	0000	DEGS
RE	3.4	4.1	4.5	4.7	4.5	4.2	0.0	0.0	0.0	0.0	0.0	HHMM
L	3.4	4.4	5.5	6.6	8.1	10.3	0.0	0.0	0.0	0.0	0.0	RE
MLT	0.2	24.0	23.8	23.6	23.4	23.1	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	1.46	15.32	25.18	33.53	41.75	50.13	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	57.3	61.6	64.7	67.2	69.4	71.8	0.0	0.0	0.0	0.0	0.0	

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Thu Sep 9 16:44:37 1993

82/059 28-FEB 1430:00 - 2230:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	1550	1630	1710	1750	1830	0000	0000	0000	0000	2150	DEGS
RE	0.0	4.2	4.6	4.7	4.5	4.0	0.0	0.0	0.0	0.0	3.4	HHMM
L	0.0	4.2	4.8	5.6	6.7	9.1	0.0	0.0	0.0	0.0	3.5	RE
MLT	0.0	24.0	24.0	0.0	0.1	0.4	0.0	0.0	0.0	0.0	23.8	HRS
MLAT	0.00	1.69	12.84	23.33	34.34	47.23	0.00	0.00	0.00	0.00	-9.33	DEGS
INVLAT	0.0	60.7	62.8	64.9	67.3	70.7	0.0	0.0	0.0	0.0	57.9	

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Thu Sep 9 16:49:52 1993

82/059 28-FEB 2115:00 - 0515:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

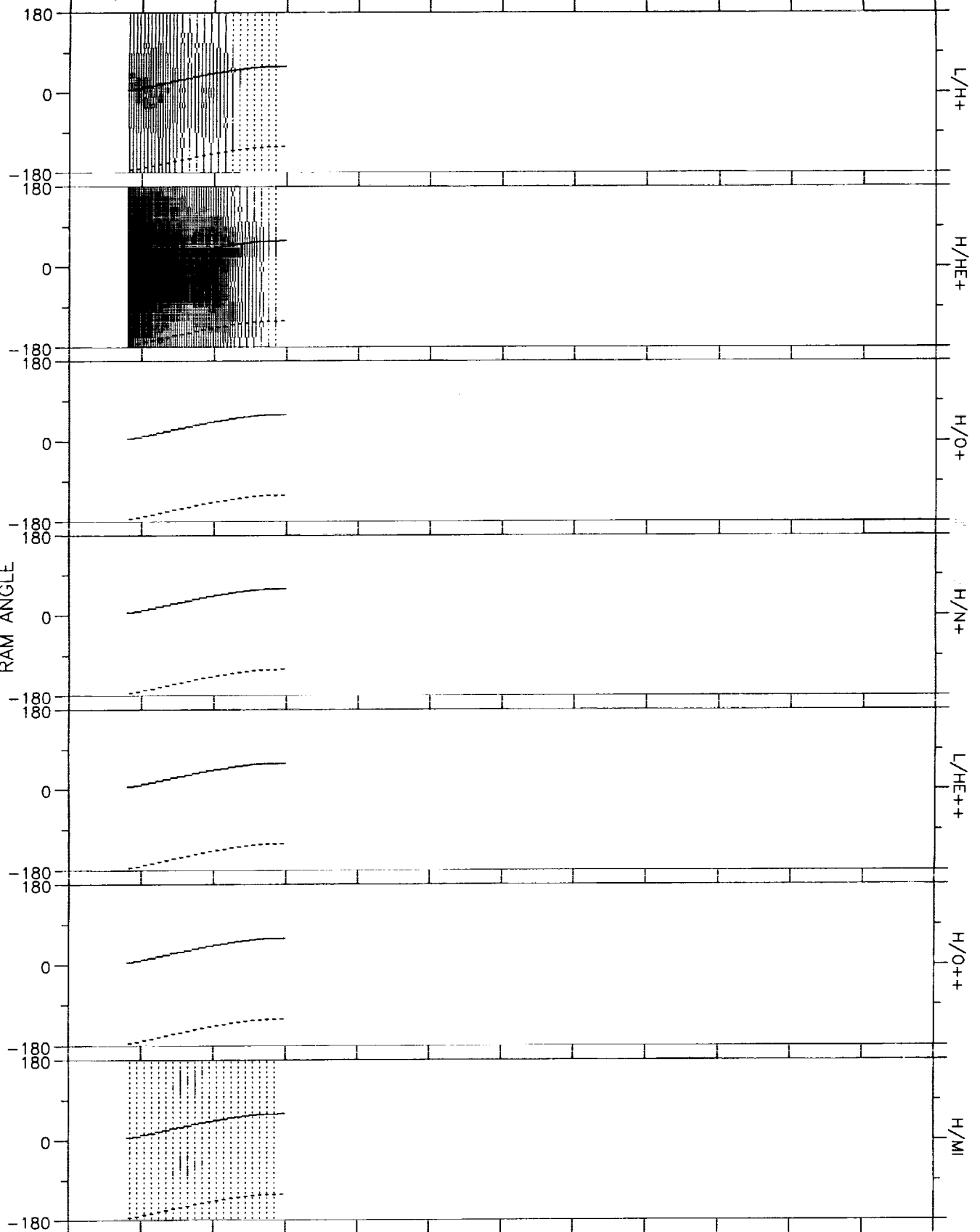
5.0

2.0

1.0

0.0

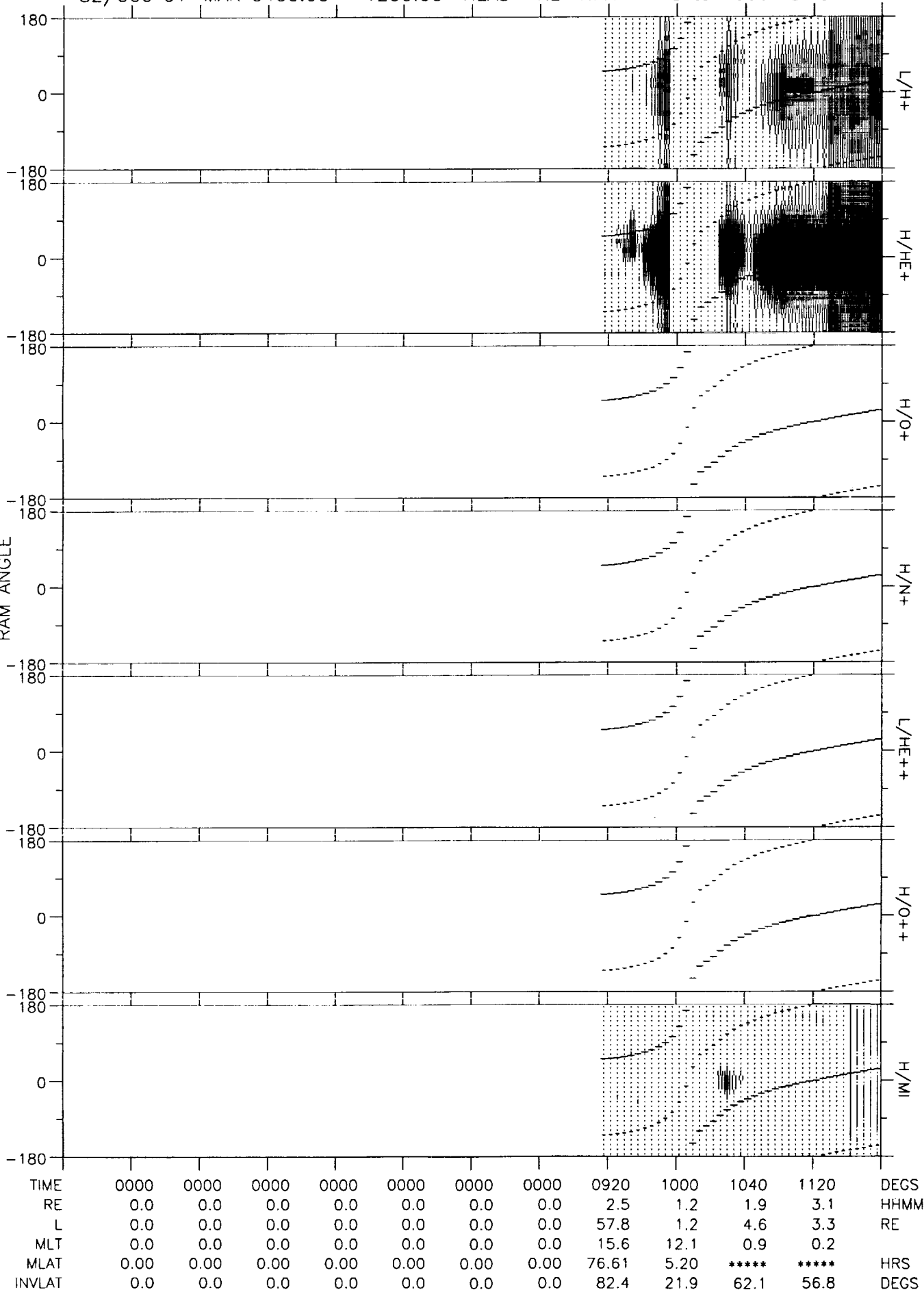
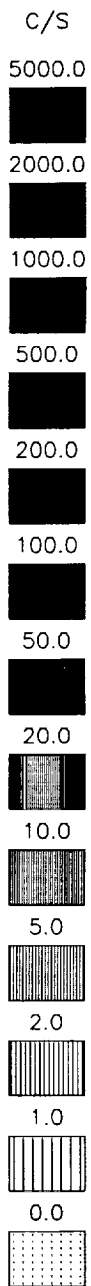
RAM ANGLE



TIME	2155	2235	0000	0000	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	3.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	3.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	23.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	-6.80	10.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	58.2	61.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS

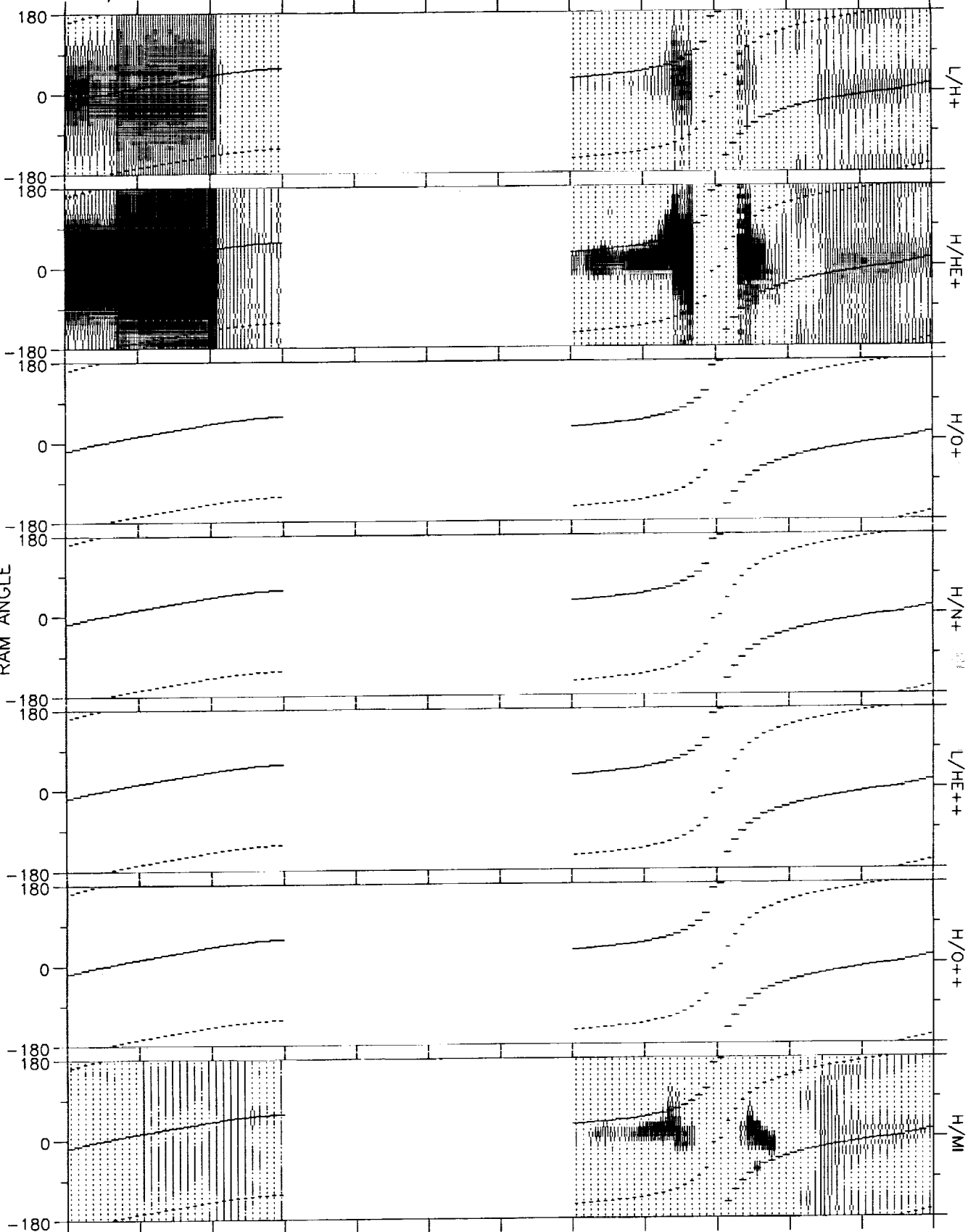
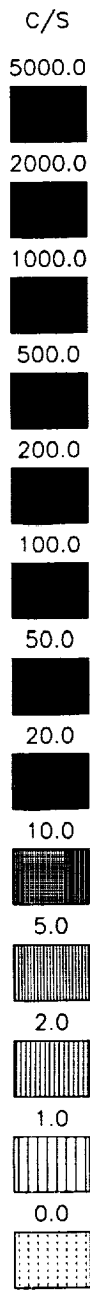
DE RMS SPIN SUMMARY
SPINRADIAL.ALL (V1.0)
Fri Sep 10 11:16:56 1993

82/060 01-MAR 0400:00 - 1200:00 HEAD= RL RPA= 0 to 1000 BIAS= 4



DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Fri Sep 10 11:18:29 1993

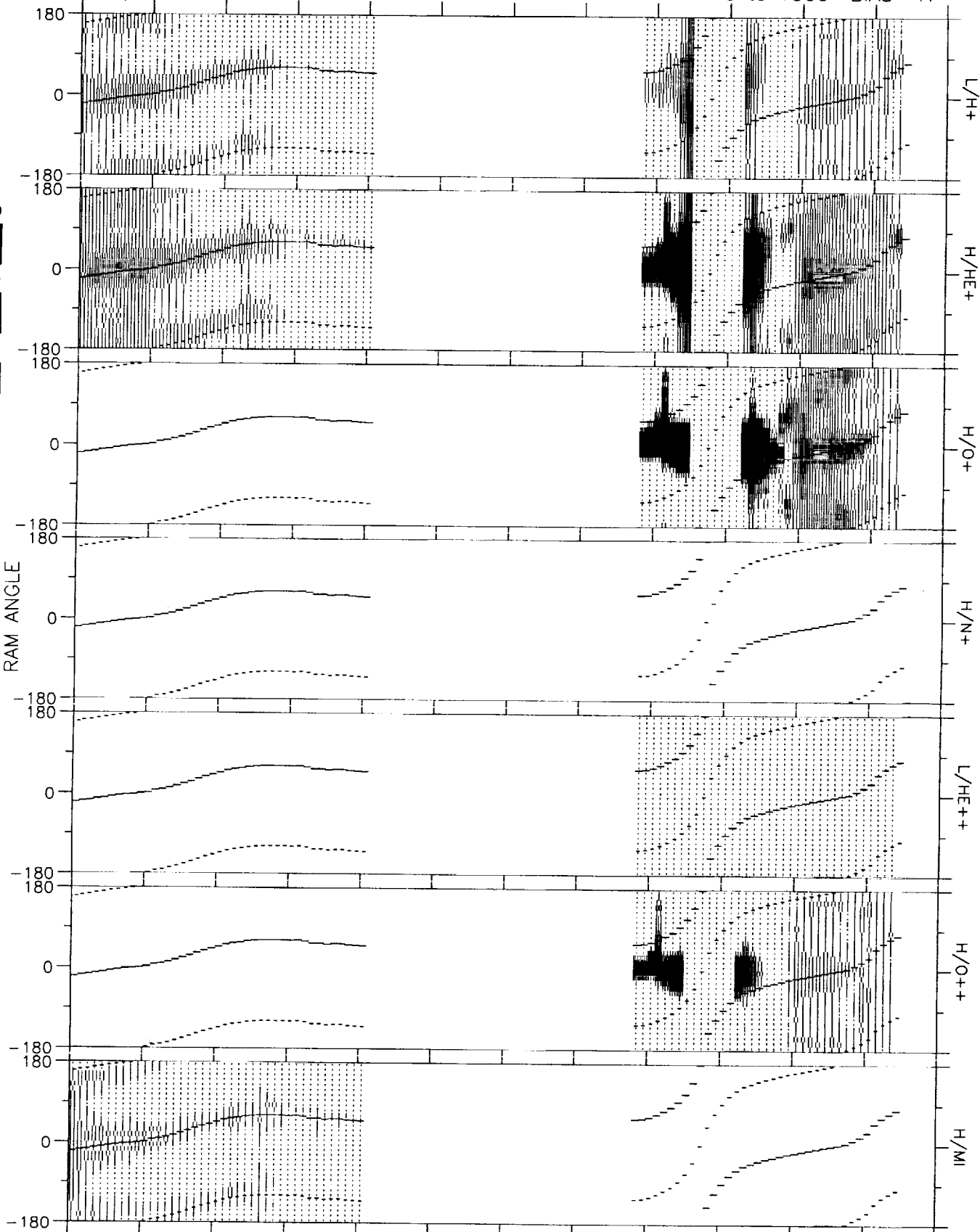
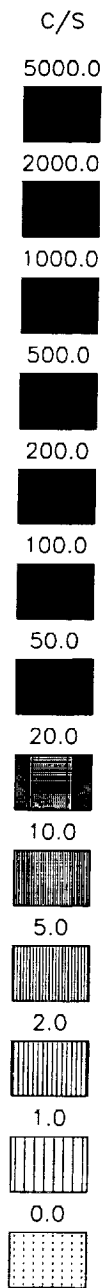
82/060 01-MAR 1100:00 - 1900:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1140	1220	0000	0000	0000	0000	1540	1620	1700	1740	1820	DEGS
RE	3.6	4.2	0.0	0.0	0.0	0.0	3.3	2.2	1.1	2.2	3.3	HHMM
L	3.6	4.2	0.0	0.0	0.0	0.0	16.6	100.0	1.3	5.1	3.6	RE
MLT	0.1	23.9	0.0	0.0	0.0	0.0	23.5	13.7	12.0	23.7	23.8	HRS
MLAT	-5.70	6.93	0.00	0.00	0.00	0.00	62.01	87.64	*****	*****	*****	DEGS
INVLAT	58.1	60.9	0.0	0.0	0.0	0.0	75.8	87.1	28.3	63.8	58.4	

DE RIMS SPIN SUMMARY
SPIN_RADIALALL (V1.0)
Fri Sep 10 11:27:44 1993

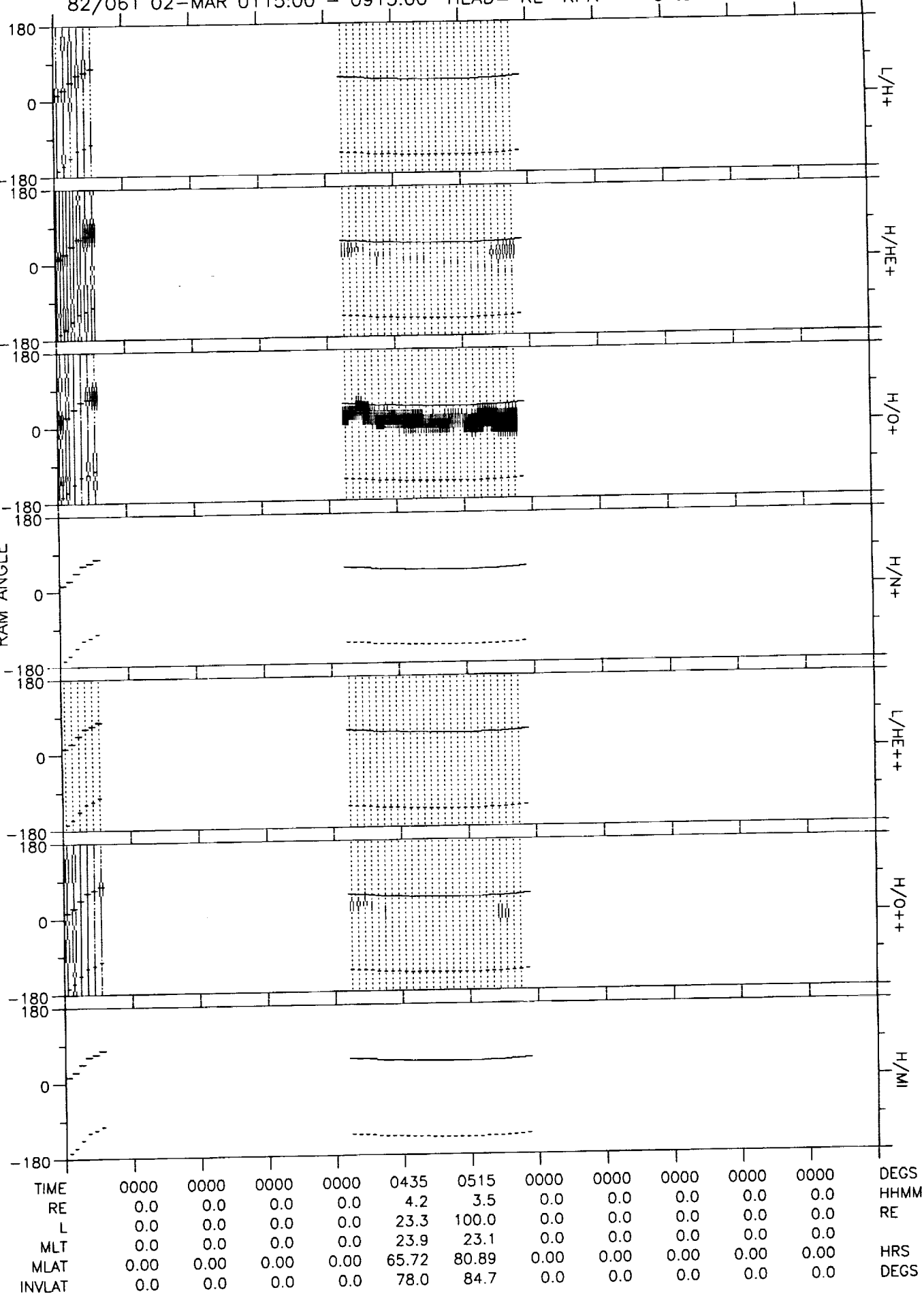
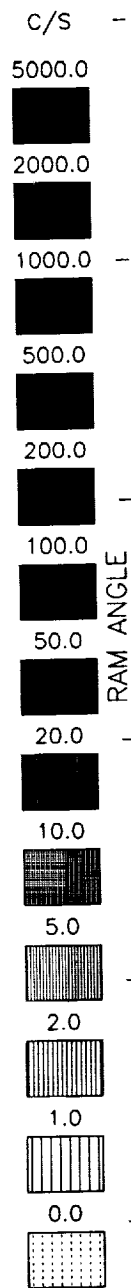
82/060 01-MAR 1800:00 - 0200:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1840	1920	2000	2040	0000	0000	0000	2320	0000	0040	0120	DEGS
RE	3.7	4.3	4.6	4.7	0.0	0.0	0.0	1.9	1.2	2.5	3.5	HHMM
L	3.8	4.3	5.1	6.1	0.0	0.0	0.0	7.8	21.7	3.2	3.6	RE
MLT	23.9	24.0	0.1	0.3	0.0	0.0	0.0	10.4	14.9	23.5	23.8	
MLAT	*****	5.62	17.98	29.43	0.00	0.00	0.00	60.06	*****	*****	3.46	HRS
INVLAT	59.0	61.4	63.7	66.2	0.0	0.0	0.0	69.0	77.6	55.8	58.3	DEGS

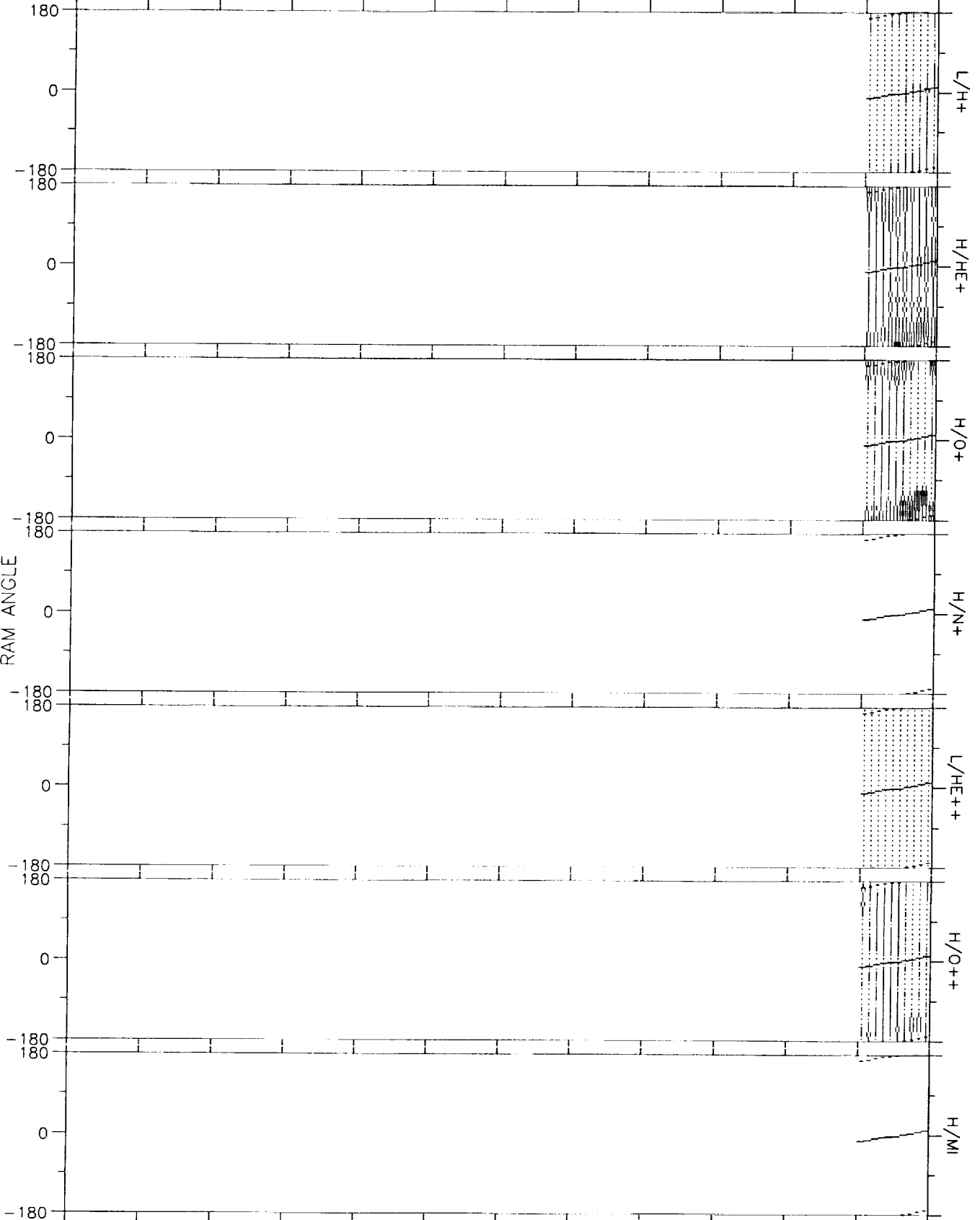
DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Fri Sep 10 11:29:38 1993

82/061 02-MAR 0115:00 - 0915:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Fri Sep 10 11:42:56 1993

82/061 02-MAR 0730:00 - 1530:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	1450	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.4	DEGS

DE RIMS SPIN SUMMARY
SPIN/RADIAL (V1.0)
Fri Sep 10 11:44:07 1993

82/061 02-MAR 1430:00 - 2230:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

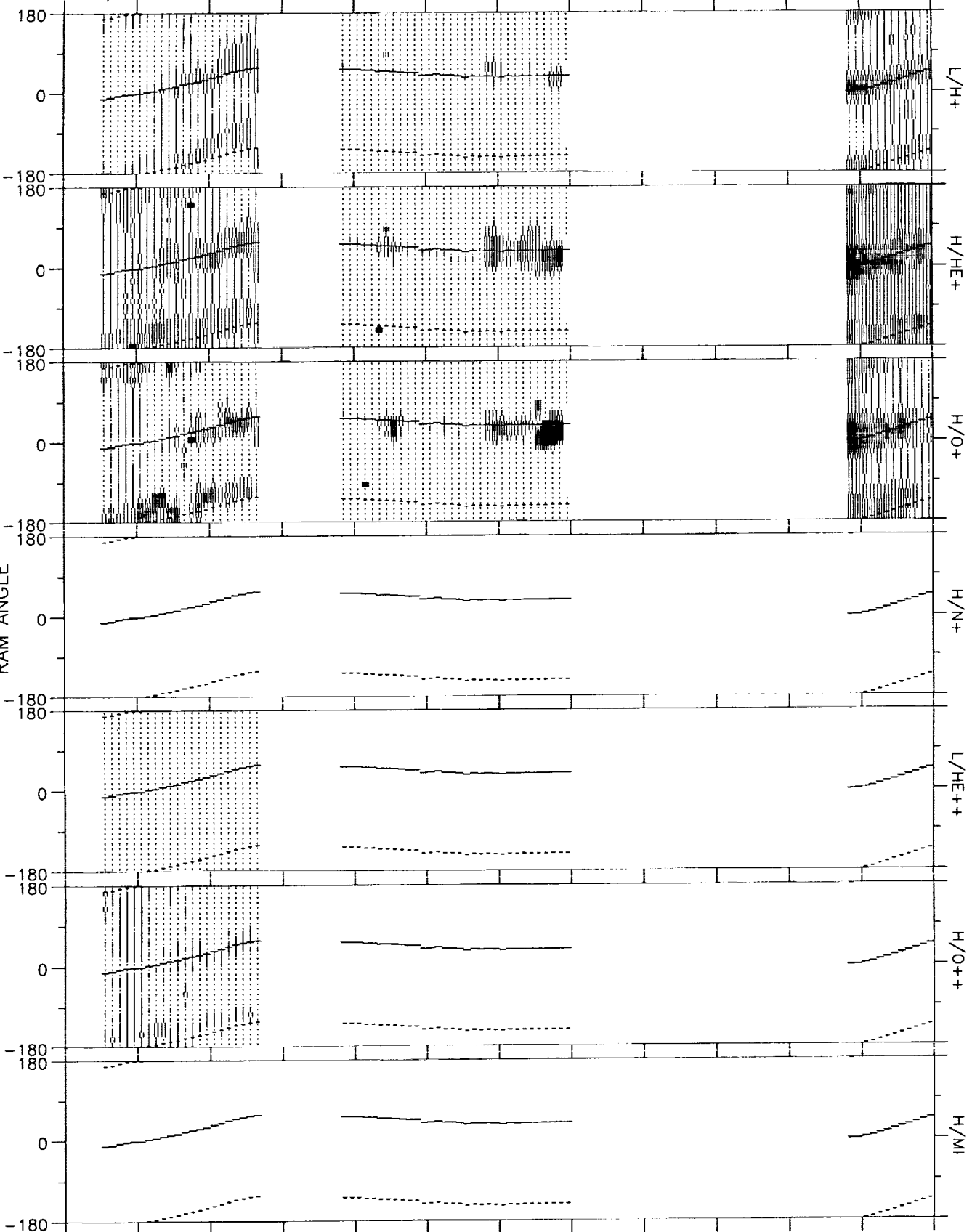
5.0

2.0

1.0

0.0

RAM ANGLE



TIME	1510	1550	0000	1710	1750	1830	0000	0000	0000	0000	2150	DEGS
RE	3.7	4.3	0.0	4.7	4.4	4.0	0.0	0.0	0.0	0.0	3.5	HHMM
L	3.8	4.2	0.0	5.6	6.8	9.3	0.0	0.0	0.0	0.0	3.6	RE
MLT	23.9	23.9	0.0	23.9	0.1	0.3	0.0	0.0	0.0	0.0	23.7	
MLAT	*****	2.37	0.00	23.91	35.09	48.31	0.00	0.00	0.00	0.00	-7.47	HRS
INVLAT	59.0	61.0	0.0	65.0	67.4	70.9	0.0	0.0	0.0	0.0	58.3	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Fri Sep 10 11:56:28 1993

82/061 02-MAR 2115:00 - 0515:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

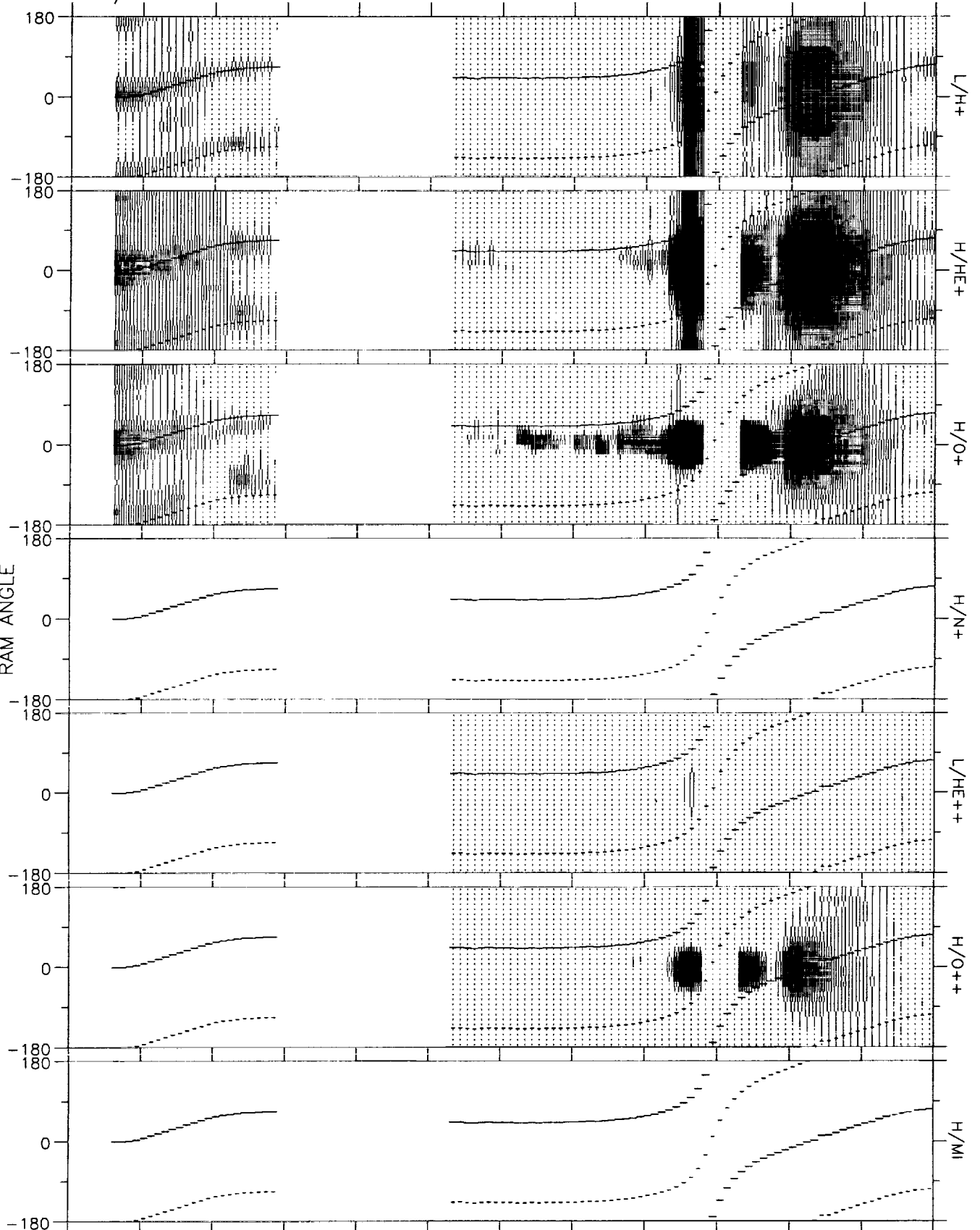
5.0

2.0

1.0

0.0

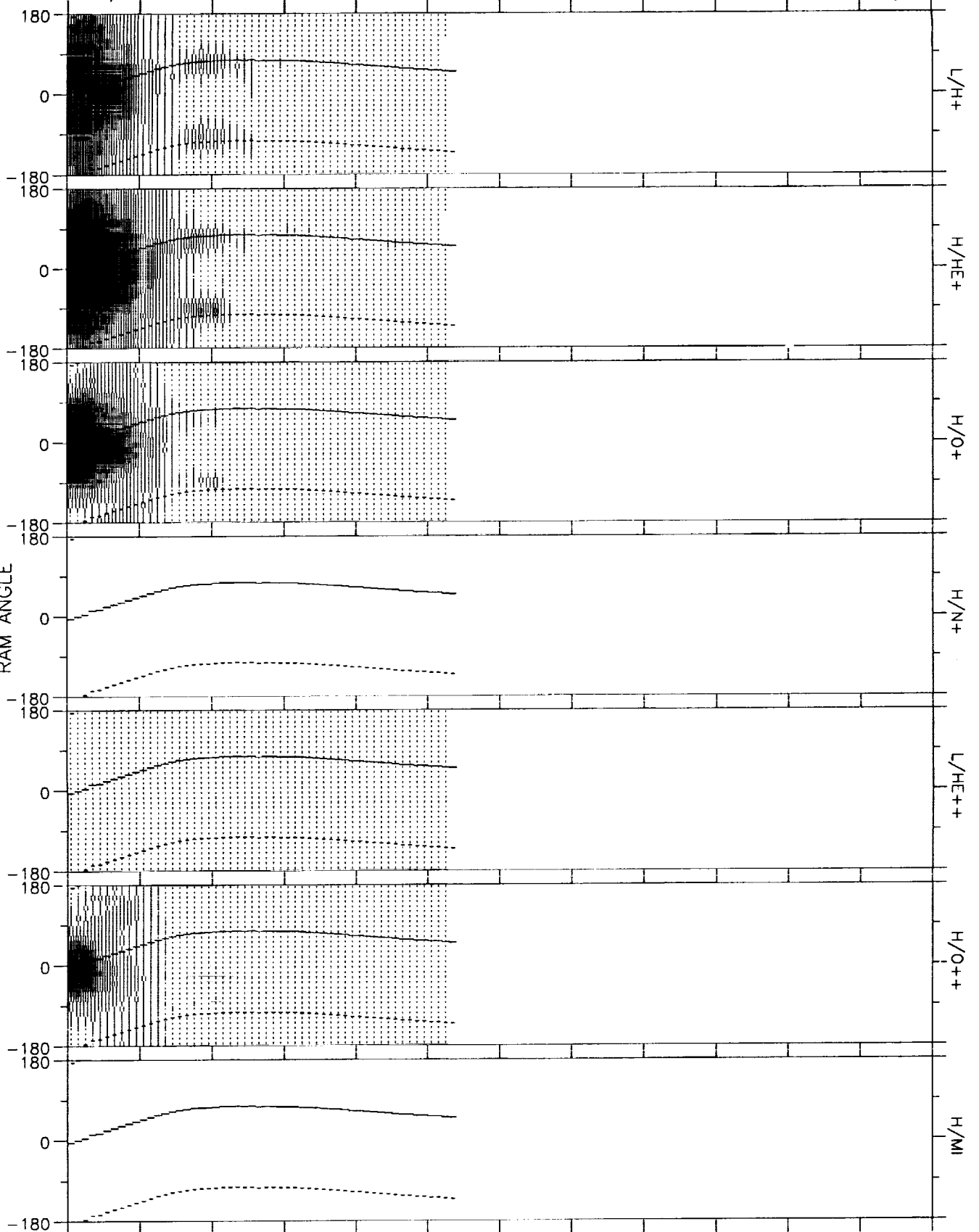
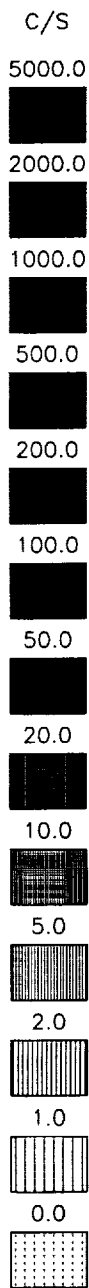
RAM ANGLE



TIME	2155	2235	0000	0000	0000	0115	0155	0235	0315	0355	0435	DEGS
RE	3.6	4.2	0.0	0.0	0.0	4.0	3.3	2.2	1.1	2.3	3.4	HHMM
L	3.7	4.4	0.0	0.0	0.0	17.2	73.9	14.3	2.8	2.8	3.4	RE
MLT	23.7	23.9	0.0	0.0	0.0	0.8	2.6	10.9	12.1	23.7	23.8	HRS
MLAT	-5.01	11.29	0.00	0.00	0.00	62.56	79.12	65.20	*****	*****	3.36	DEGS
INVLAT	58.6	61.5	0.0	0.0	0.0	76.0	83.3	74.7	53.6	53.5	57.4	

DE RMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Fri Sep 10 12:00:45 1993

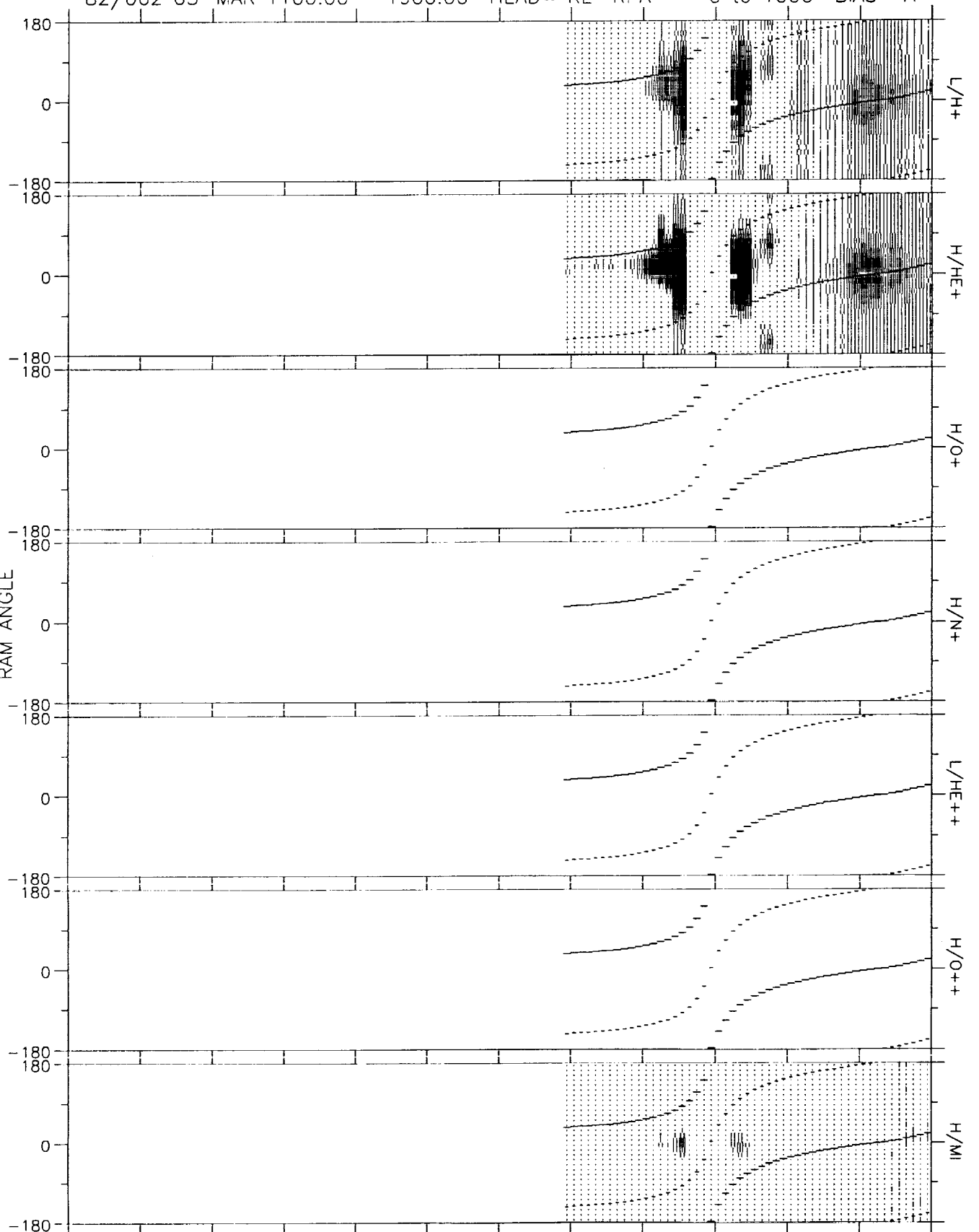
82/062 03-MAR 0400:00 - 1200:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0440	0520	0600	0640	0720	0000	0000	0000	0000	0000	0000	DEGS
RE	3.5	4.2	4.5	4.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	3.6	4.8	6.4	8.4	11.3	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	23.8	23.8	23.7	23.6	23.3	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	5.80	20.95	32.14	41.64	50.72	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	58.1	63.0	66.7	69.8	72.7	0.0	0.0	0.0	0.0	0.0	0.0	

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Fri Sep 10 12:05:13 1993

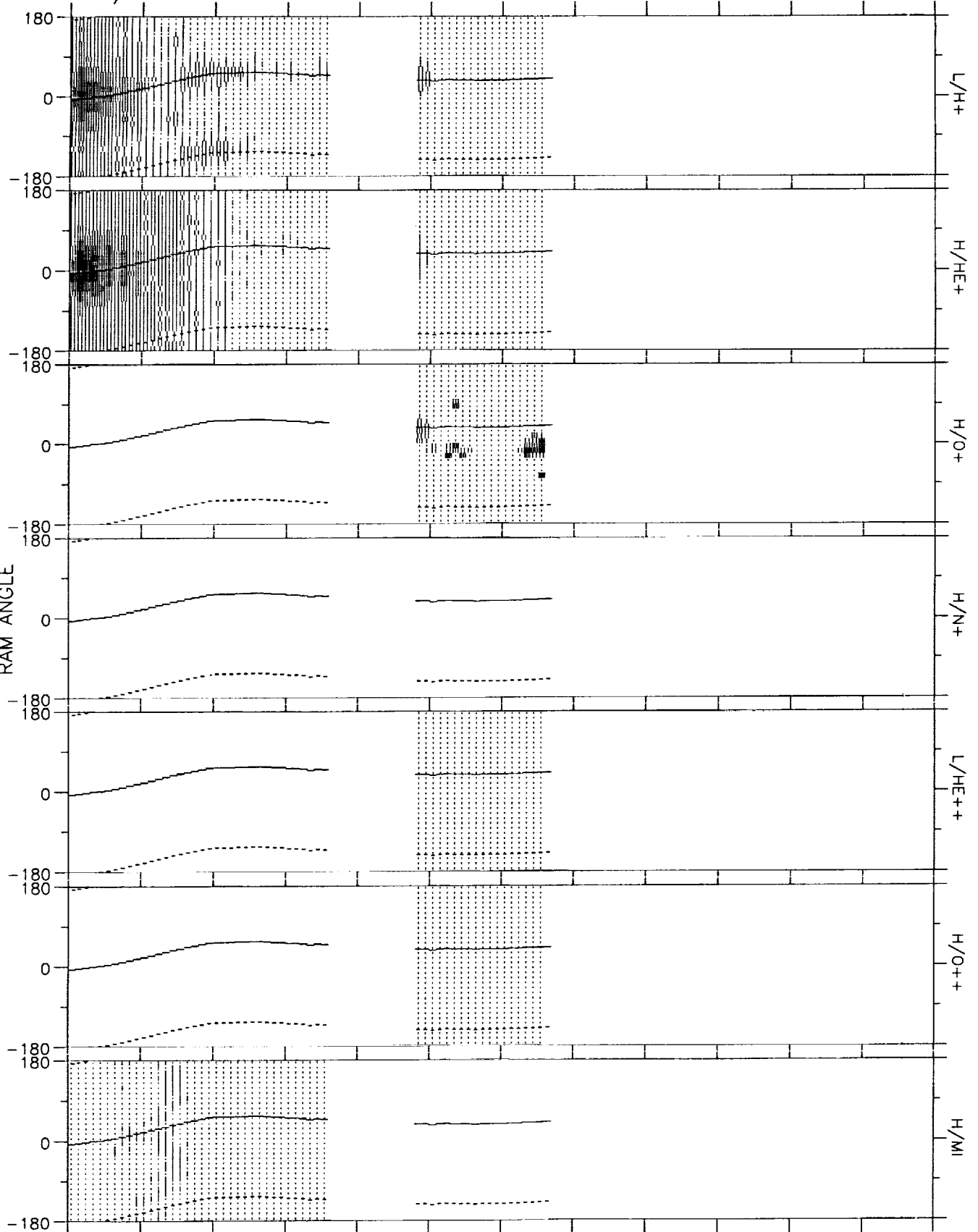
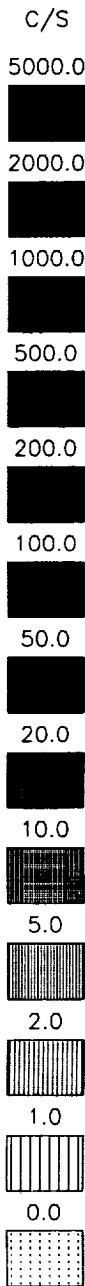
82/062 03-MAR 1100:00 - 1900:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	0000	1540	1620	1700	1740	1820	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	3.2	2.0	1.1	2.4	3.4	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	18.3	83.4	2.0	4.6	3.7	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	23.4	12.1	11.9	23.6	23.7	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	63.72	82.77	*****	*****	*****	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	76.5	83.7	45.5	62.2	58.6	DEGS

DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Fri Sep 10 12:06:41 1993

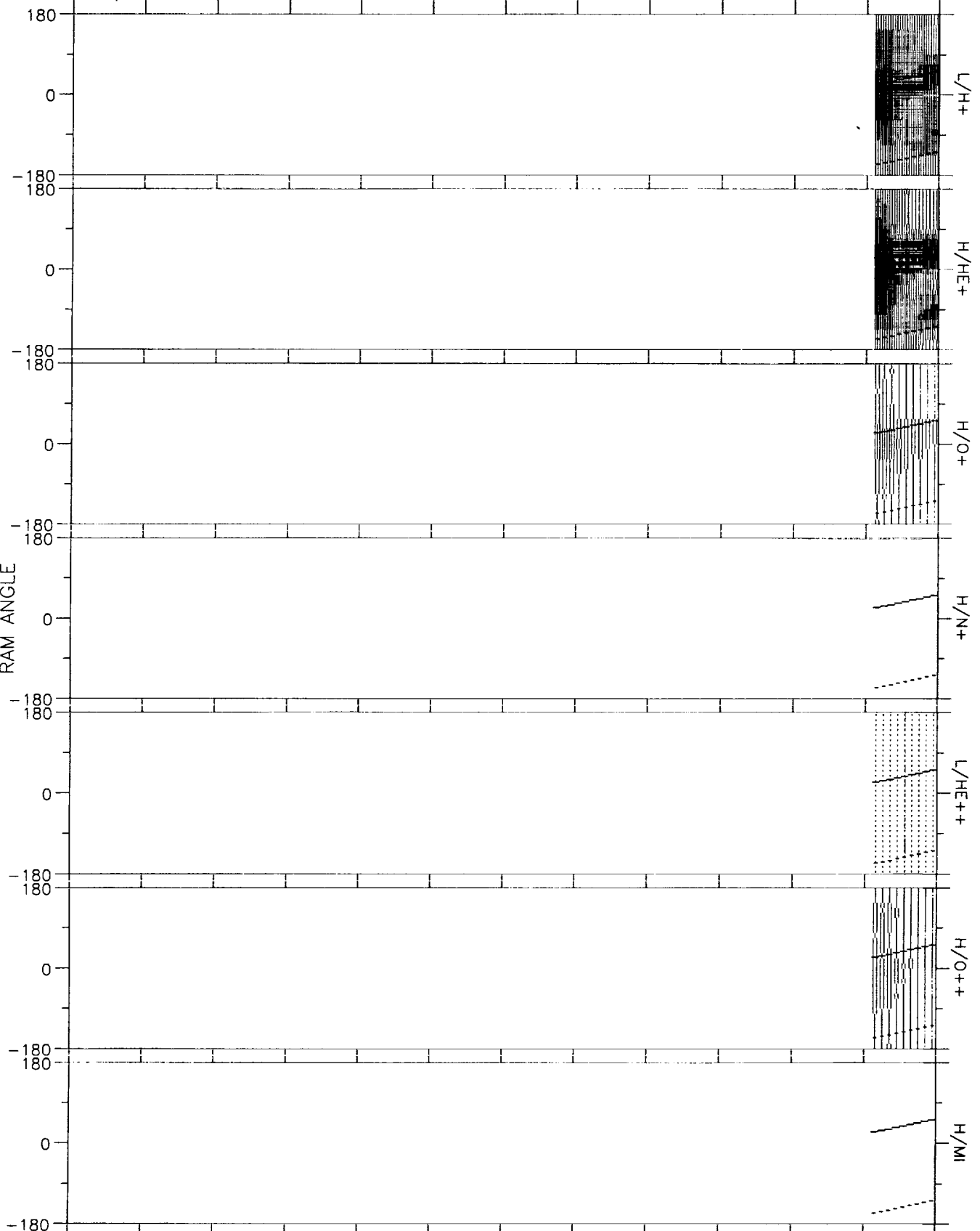
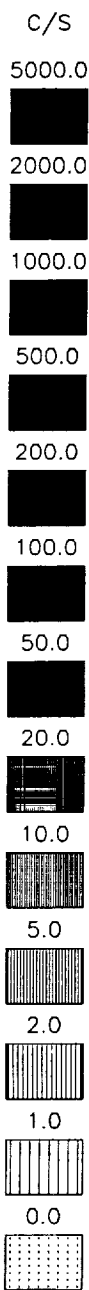
82/062 03-MAR 1815:00 - 0215:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1855	1935	2015	0000	2135	2215	0000	0000	0000	0000	0000	DEGS
RE	4.1	4.5	4.7	0.0	4.2	3.6	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.0	4.7	5.5	0.0	9.3	17.8	0.0	0.0	0.0	0.0	0.0	RE
MLT	23.8	23.9	0.1	0.0	0.6	1.4	0.0	0.0	0.0	0.0	0.0	
MLAT	-1.98	11.32	23.27	0.00	48.11	63.73	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	60.2	62.5	64.8	0.0	70.9	76.3	0.0	0.0	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Fri Sep 10 12:12:44 1993

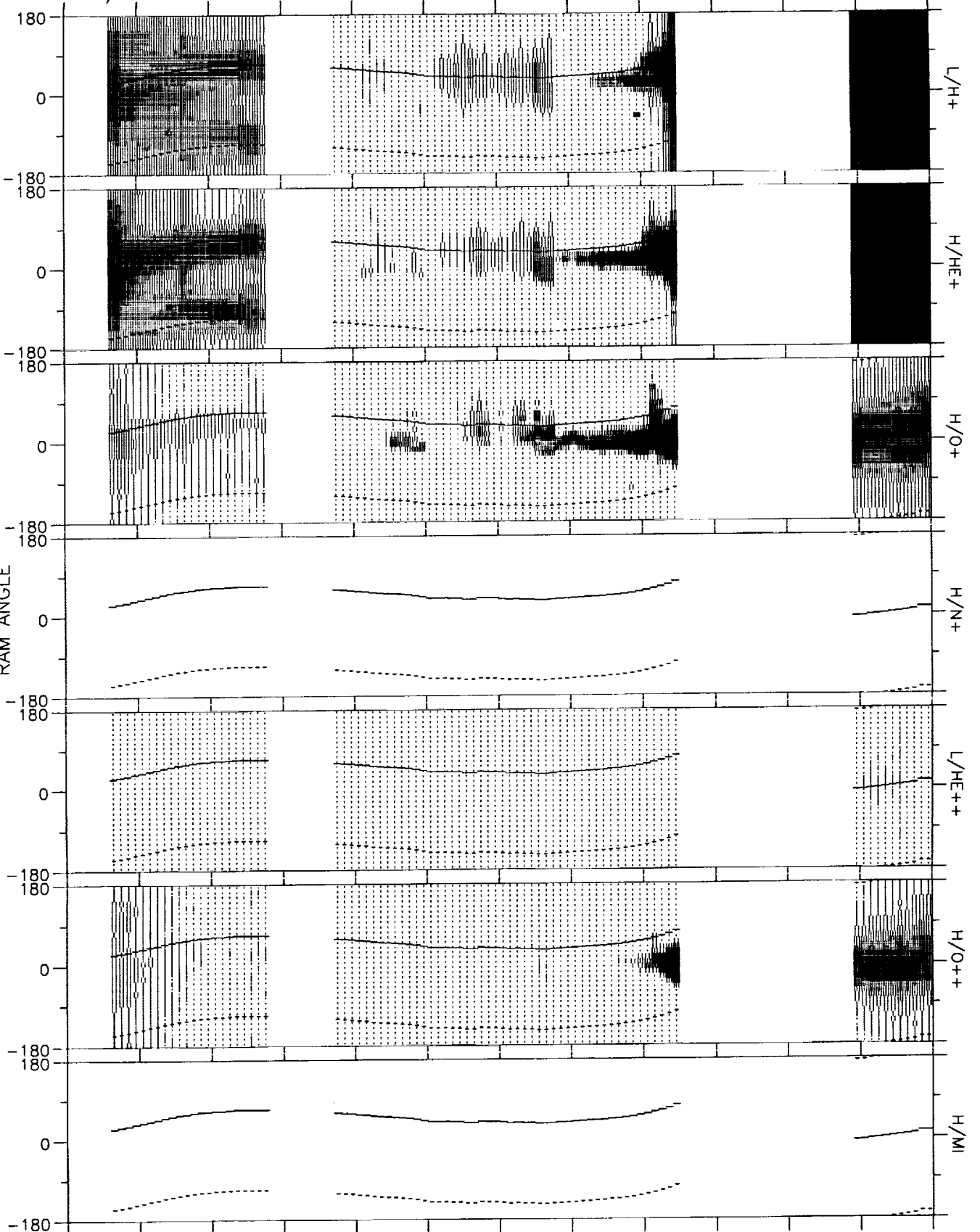
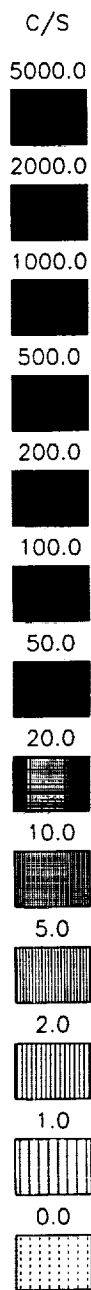
82/063 04-MAR 0030:00 - 0830:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Fri Sep 10 12:13:58 1993

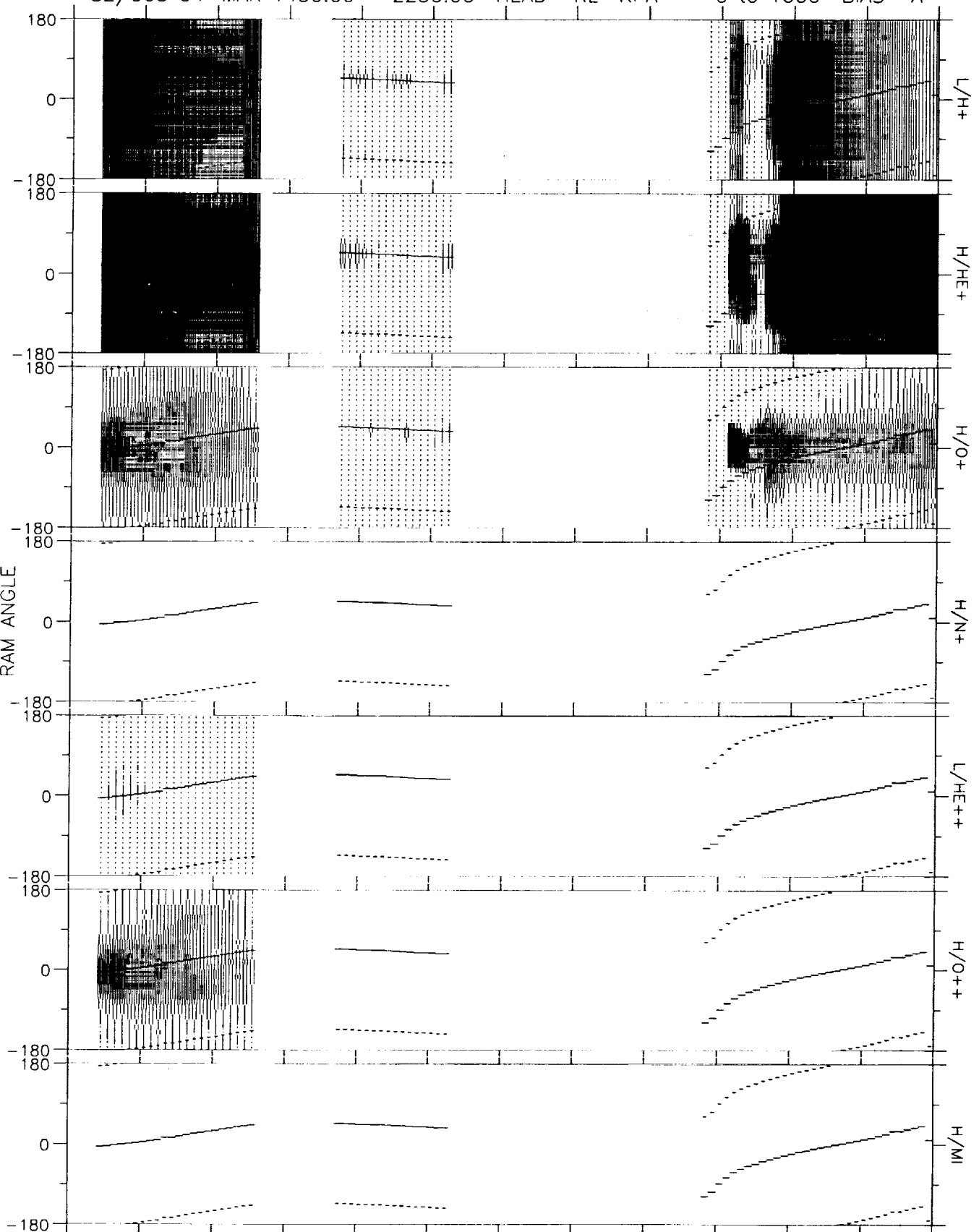
82/063 04-MAR 0730:00 - 1530:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0810	0850	0000	1010	1050	1130	1210	1250	0000	0000	1450	DEGS
RE	3.6	4.3	0.0	4.7	4.5	4.0	3.3	2.1	0.0	0.0	3.4	HHMM
L	3.6	4.6	0.0	6.7	8.1	10.8	22.2	35.6	0.0	0.0	3.7	RE
MLT	23.9	23.7	0.0	23.3	23.1	22.8	22.1	14.9	0.0	0.0	23.8	HRS
MLAT	3.76	16.28	0.00	33.82	42.22	52.22	66.37	77.13	0.00	0.00	****	DEGS
INVLAT	58.3	62.1	0.0	67.2	69.4	72.3	77.8	80.3	0.0	0.0	58.6	

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Fri Sep 10 12:23:06 1993

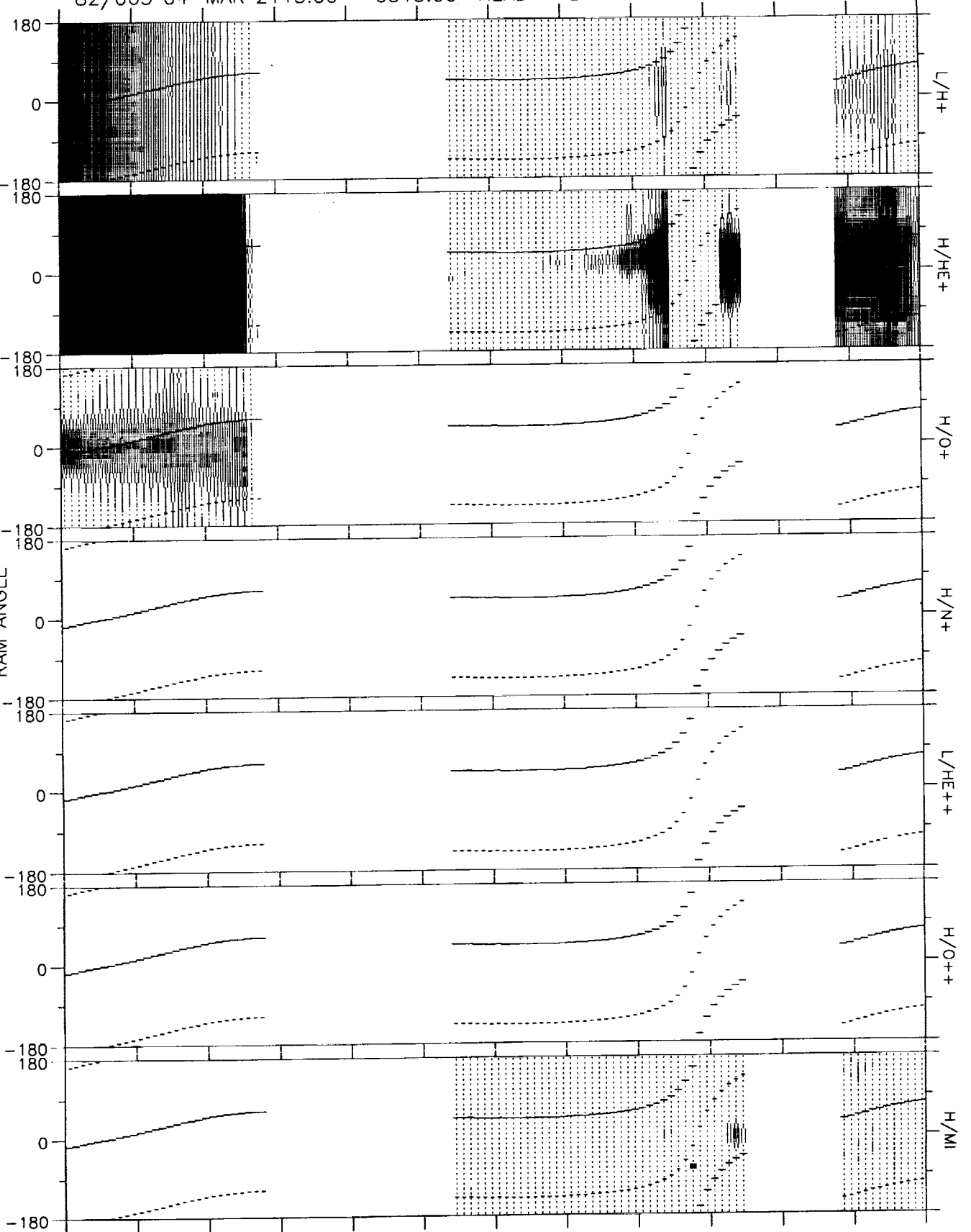
82/063 04-MAR 1430:00 - 2230:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1510	1550	0000	1710	1750	0000	0000	0000	2030	2110	2150	DEGS
RE	3.8	4.4	0.0	4.6	4.4	0.0	0.0	0.0	1.3	2.6	3.6	HHMM
L	3.8	4.3	0.0	5.7	6.9	0.0	0.0	0.0	13.9	3.7	3.7	RE
MLT	23.8	23.7	0.0	23.8	23.9	0.0	0.0	0.0	14.4	23.3	23.6	
MLAT	-9.93	3.02	0.00	24.51	35.87	0.00	0.00	0.00	****	****	-5.66	HRS
INVLAT	59.3	61.2	0.0	65.2	67.6	0.0	0.0	0.0	74.4	58.5	58.6	DEGS

DE RIMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Fri Sep 10 12:25:38 1993

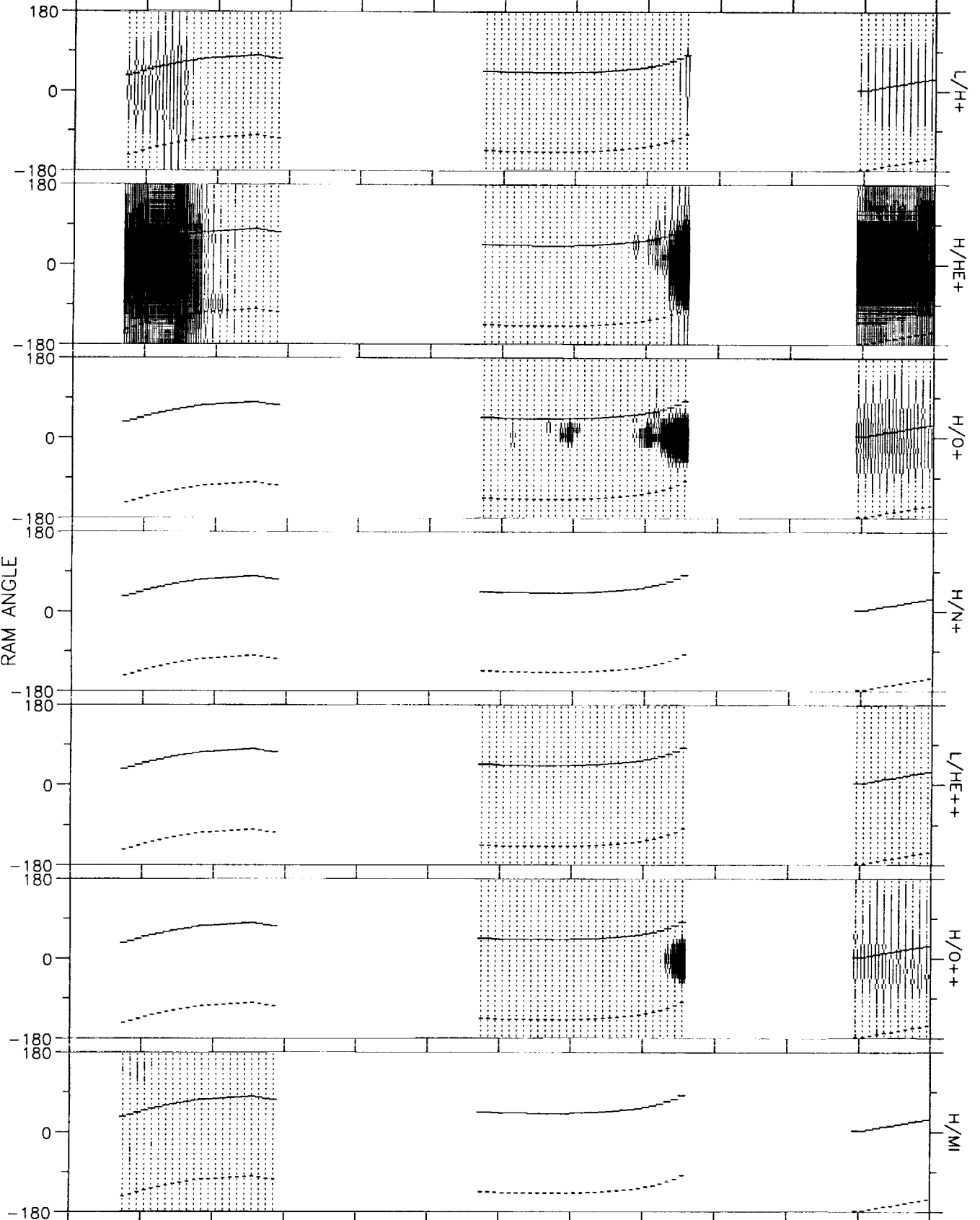
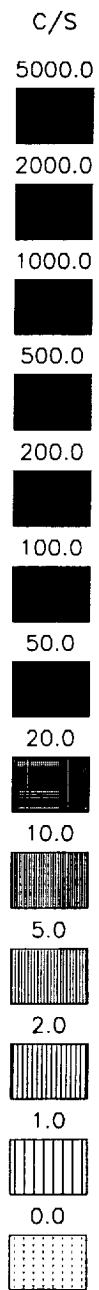
82/063 04-MAR 2115:00 - 0515:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	2155	2235	0000	0000	0000	0115	0155	0235	0315	0000	0435	DEGS
RE	3.7	4.3	0.0	0.0	0.0	4.0	3.2	2.0	1.1	0.0	3.5	HHMM
L	3.8	4.5	0.0	0.0	0.0	18.4	98.3	8.8	19.1	0.0	3.6	RE
MLT	23.6	23.8	0.0	0.0	0.0	0.8	3.0	11.0	12.3	0.0	23.7	HRS
MLAT	-3.31	12.47	0.00	0.00	0.00	63.85	80.83	59.57	****	0.00	4.97	DEGS
INVLAT	58.9	61.8	0.0	0.0	0.0	76.5	84.2	70.3	76.8	0.0	58.0	

DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Fri Sep 10 12:35:14 1993

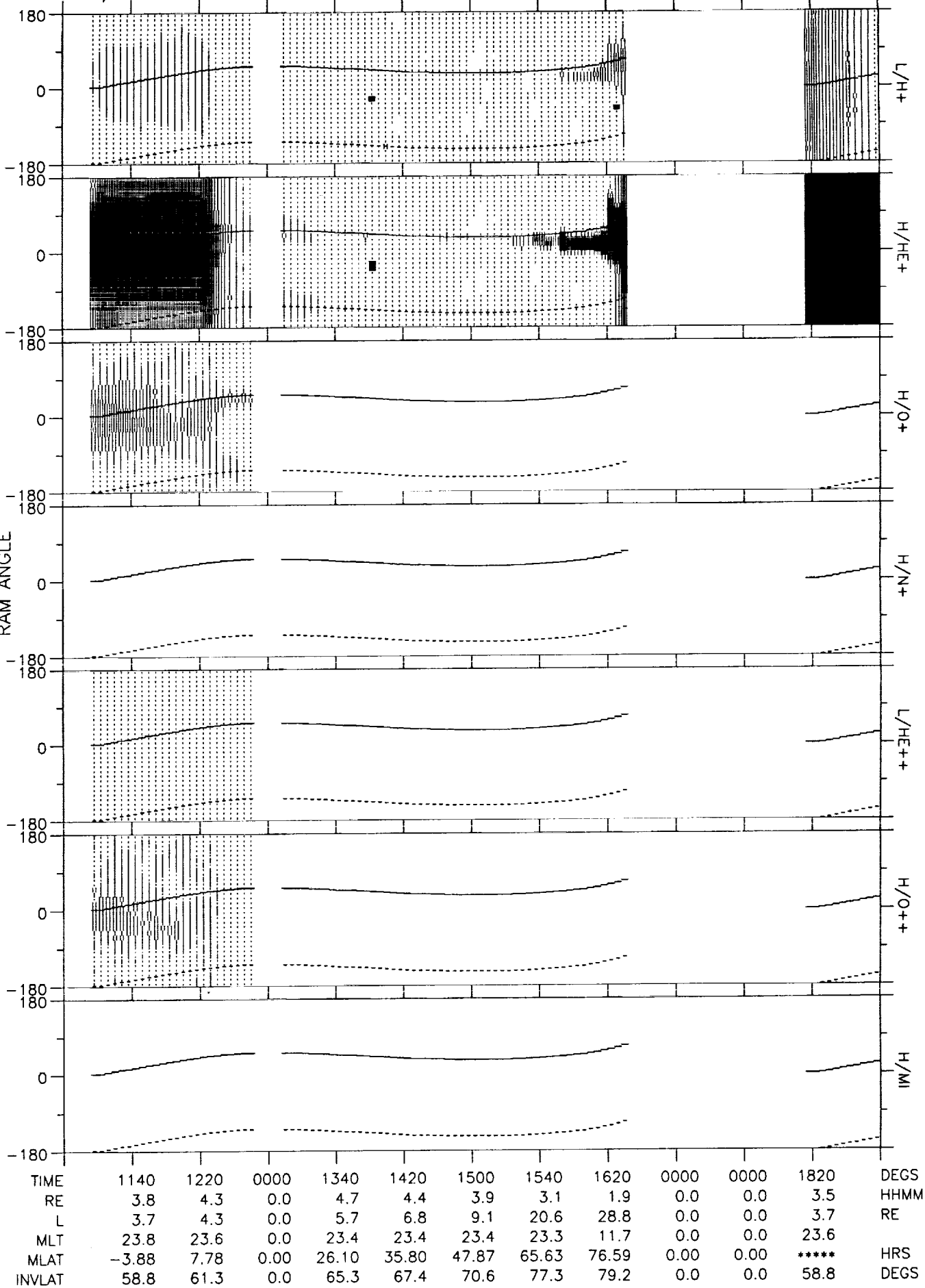
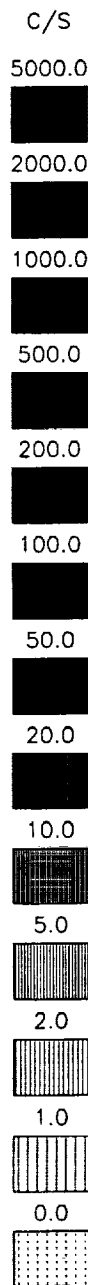
82/064 05-MAR 0400:00 - 1200:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0440	0520	0000	0000	0000	0800	0840	0920	0000	0000	1120	DEGS
RE	3.6	4.2	0.0	0.0	0.0	4.1	3.3	2.2	0.0	0.0	3.3	HHMM
L	3.7	5.0	0.0	0.0	0.0	17.4	45.4	22.4	0.0	0.0	3.5	RE
MLT	23.7	23.7	0.0	0.0	0.0	22.7	21.3	14.1	0.0	0.0	23.9	
MLAT	7.27	21.70	0.00	0.00	0.00	61.09	73.74	70.93	0.00	0.00	*****	HRS
INVLAT	58.7	63.3	0.0	0.0	0.0	76.1	81.5	77.8	0.0	0.0	57.5	DEGS

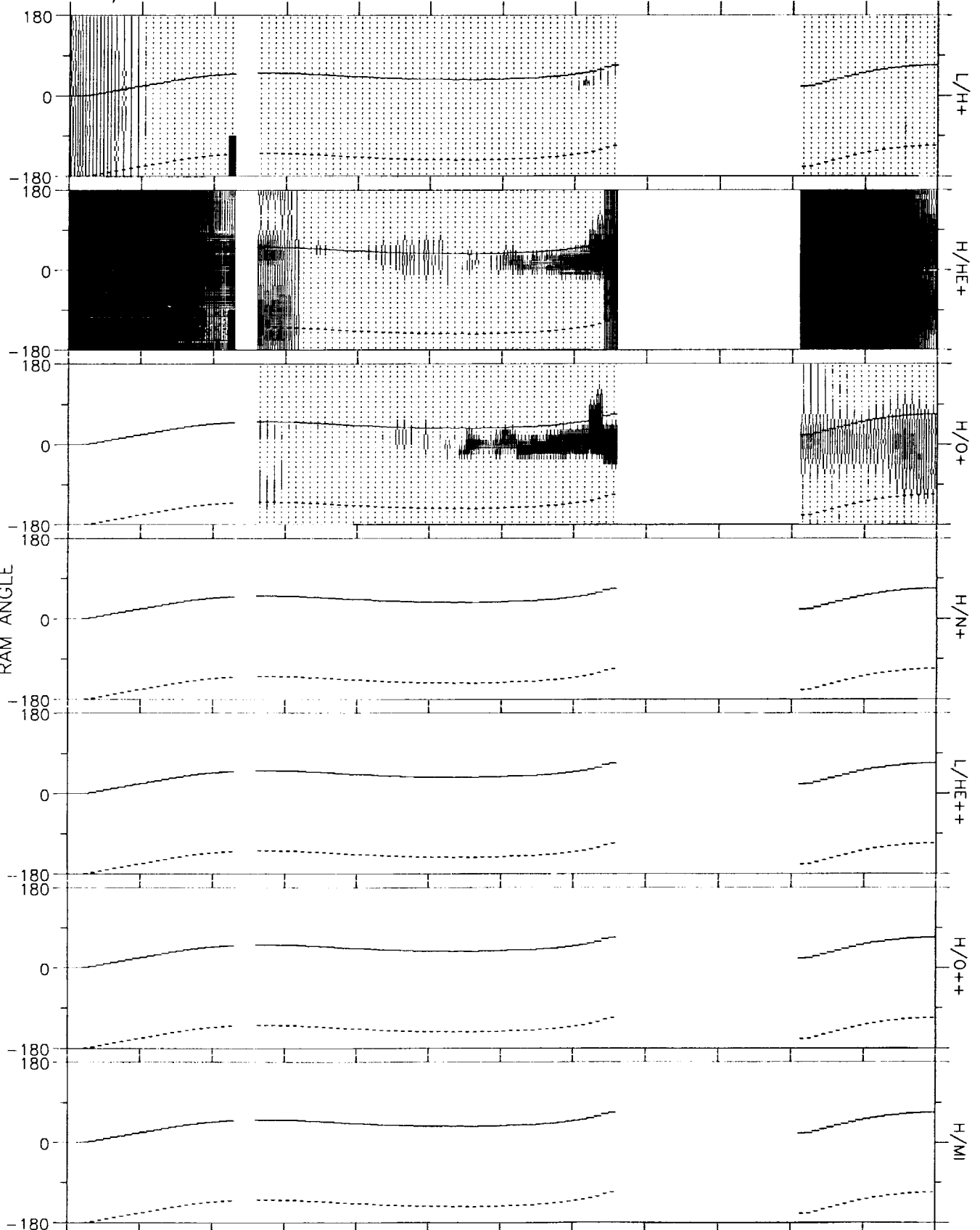
DE RMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Fri Sep 10 12:37:02 1993

82/064 05-MAR 1100:00 - 1900:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Fri Sep 10 12:46:57 1993

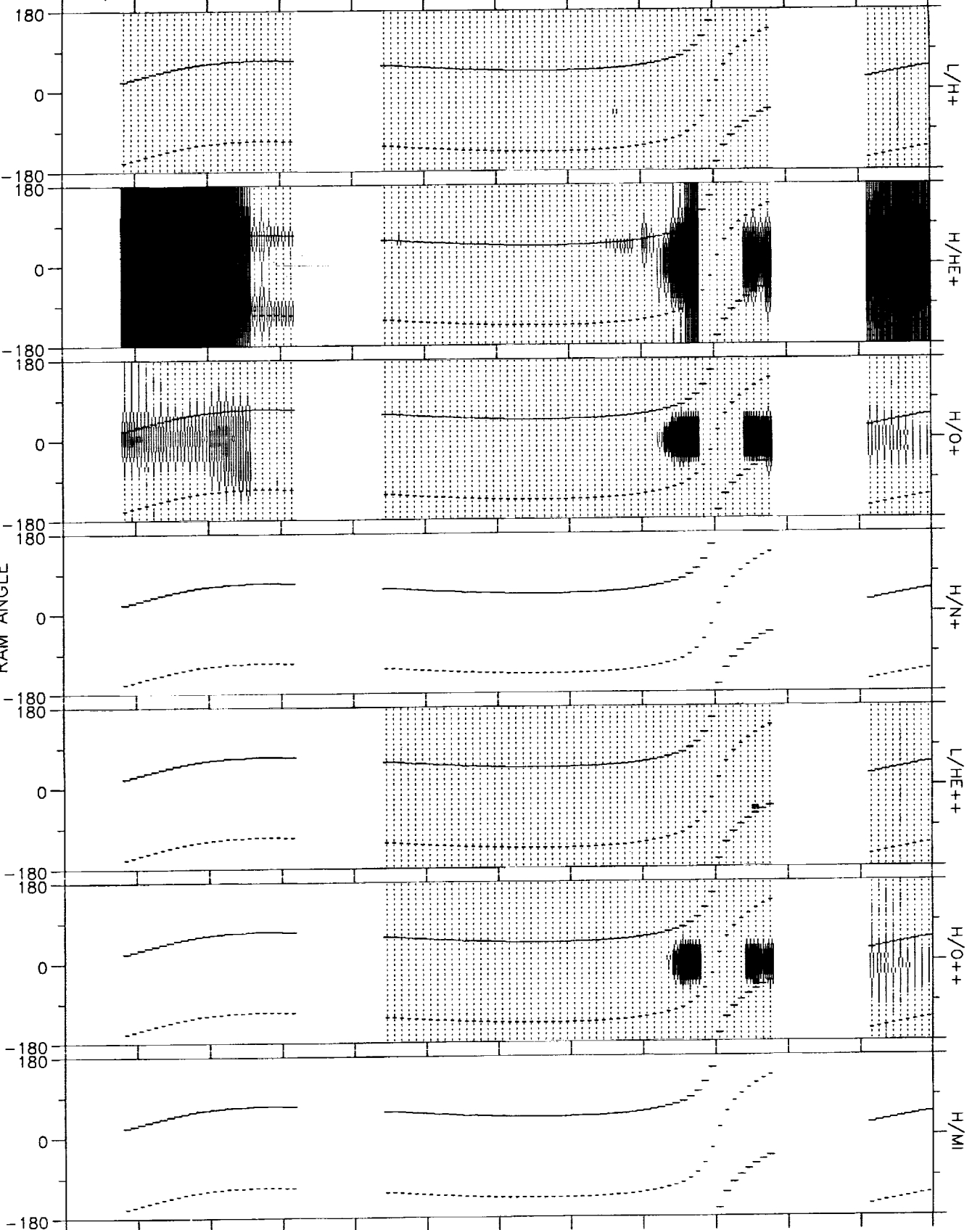
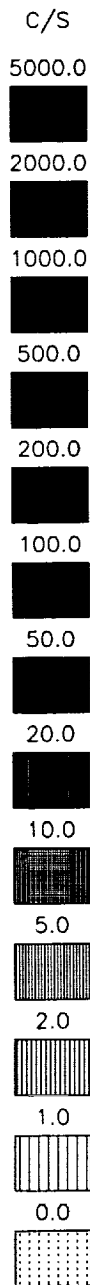
82/064 05-MAR 1815:00 - 0215:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1855	1935	2015	2055	2135	2215	2255	0000	0000	0000	0135	DEGS
RE	4.1	4.5	4.7	4.5	4.2	3.5	2.4	0.0	0.0	0.0	4.0	HHMM
L	4.1	4.7	5.6	6.9	9.6	19.5	62.8	0.0	0.0	0.0	4.2	RE
MLT	23.7	23.8	24.0	0.2	0.5	1.4	7.6	0.0	0.0	0.0	23.6	
MLAT	-0.87	12.20	24.11	36.07	49.25	65.38	76.92	0.00	0.00	0.00	12.86	HRS
INVLAT	60.4	62.7	65.0	67.7	71.2	76.9	82.8	0.0	0.0	0.0	60.8	DEGS

DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Fri Sep 10 12:49:05 1993

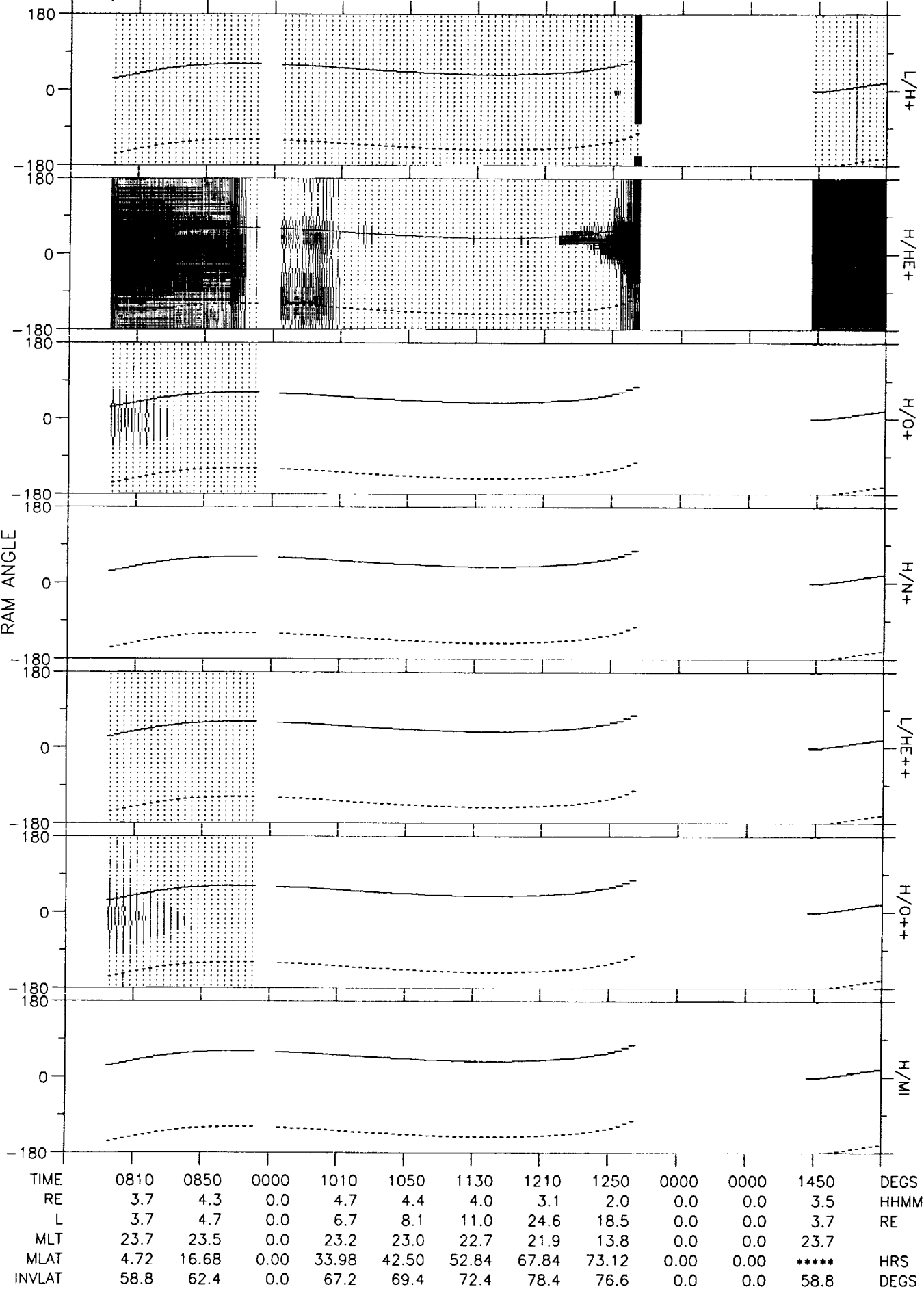
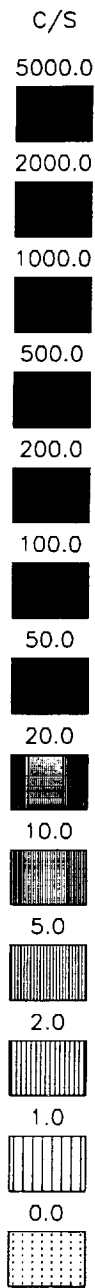
82/065 06-MAR 0030:00 - 0830:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0110	0150	0230	0000	0350	0430	0510	0550	0630	0000	0000	DEGS
RE	3.5	4.2	4.6	0.0	4.5	4.1	3.4	2.3	1.1	0.0	0.0	HHMM
L	3.6	4.7	6.2	0.0	12.5	23.3	100.0	22.2	1.5	0.0	0.0	RE
MLT	23.5	23.7	23.8	0.0	23.7	23.6	22.6	12.5	11.5	0.0	0.0	HRS
MLAT	2.06	18.35	31.11	0.00	53.63	65.87	81.49	69.47	*****	0.00	0.00	DEGS
INVLAT	58.2	62.4	66.2	0.0	73.6	78.0	85.0	77.7	35.4	0.0	0.0	

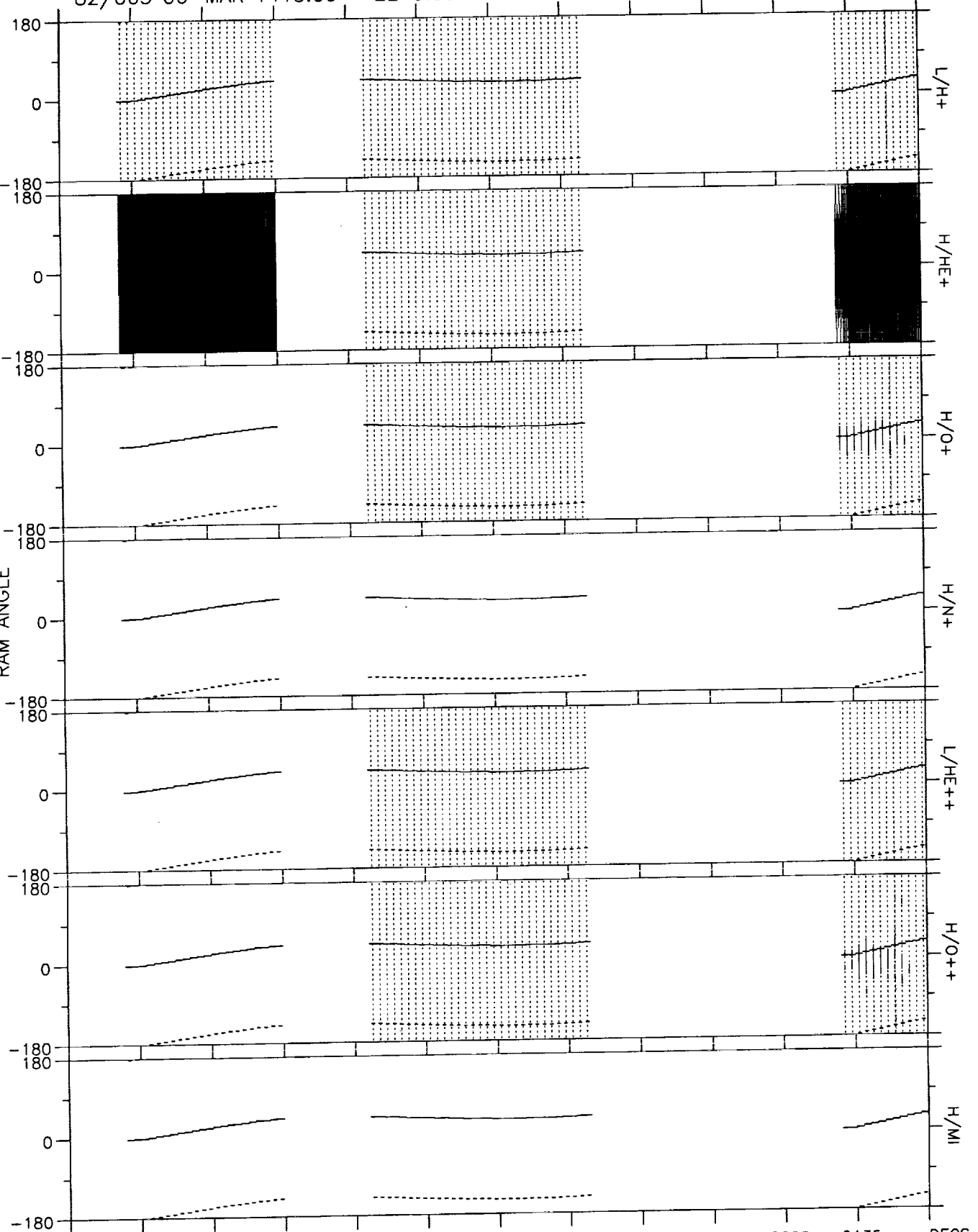
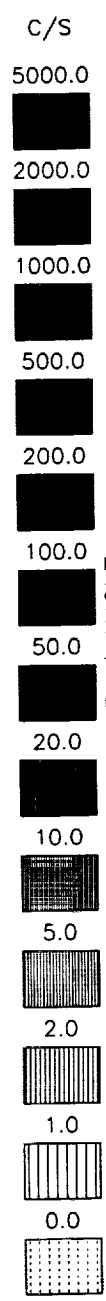
DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Fri Sep 10 16:12:09 1993

82/065 06-MAR 0730:00 - 1530:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Fri Sep 10 16:13:59 1993

82/065 06-MAR 1415:00 - 2215:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1455	1535	0000	0000	1735	1815	1855	0000	0000	0000	2135	DEGS
RE	3.6	4.2	0.0	0.0	4.5	4.0	3.3	0.0	0.0	0.0	3.4	HHMM
L	3.8	4.2	0.0	0.0	6.4	8.4	16.4	0.0	0.0	0.0	3.6	RE
MLT	23.7	23.6	0.0	0.0	23.8	0.0	0.6	0.0	0.0	0.0	23.4	HRS
MLAT	****	-0.68	0.00	0.00	32.19	45.07	62.28	0.00	0.00	0.00	****	DEGS
INVLAT	59.0	60.7	0.0	0.0	66.7	69.8	75.7	0.0	0.0	0.0	58.1	

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Fri Sep 10 16:16:49 1993

82/065 06-MAR 2100:00 - 0500:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

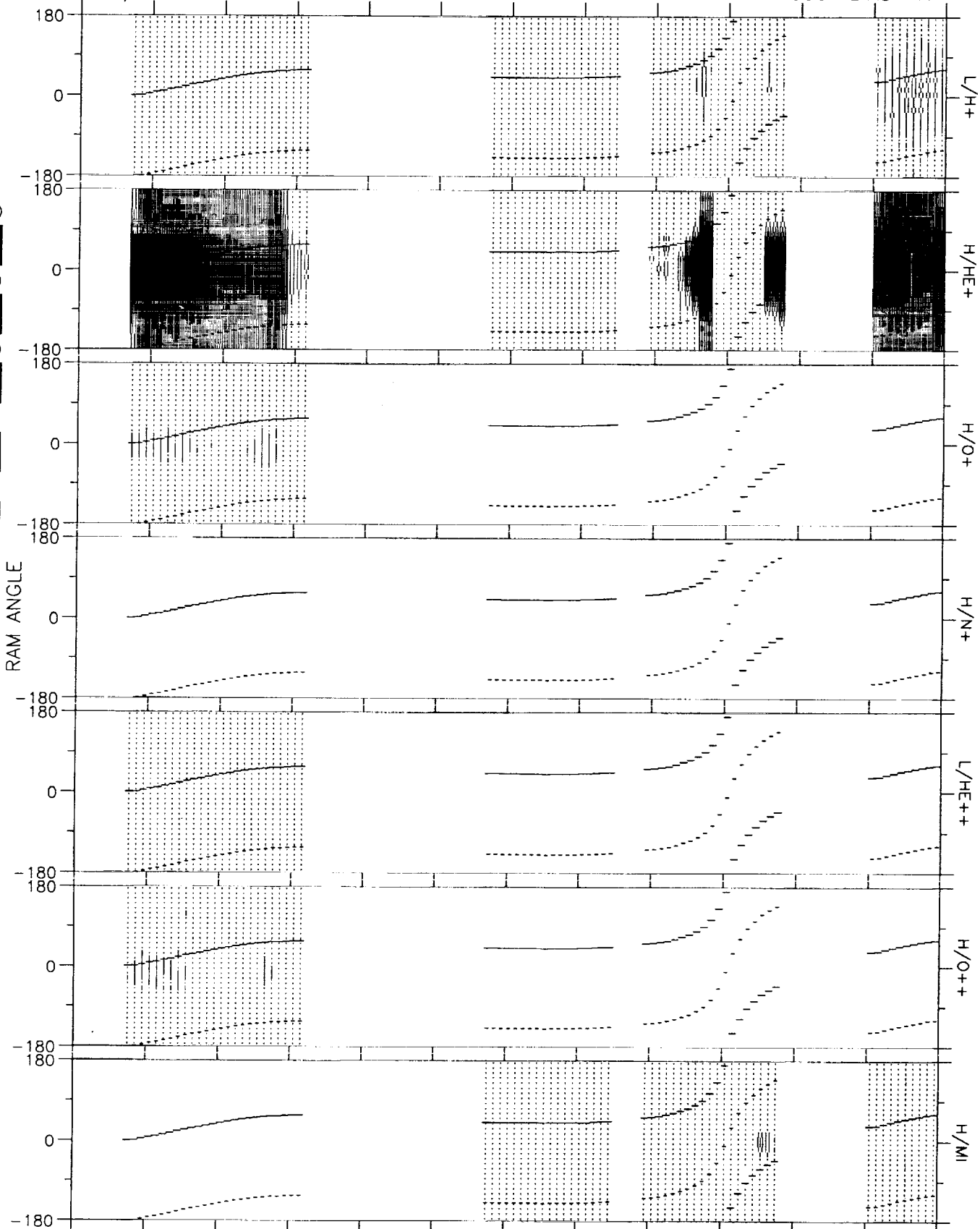
5.0

2.0

1.0

0.0

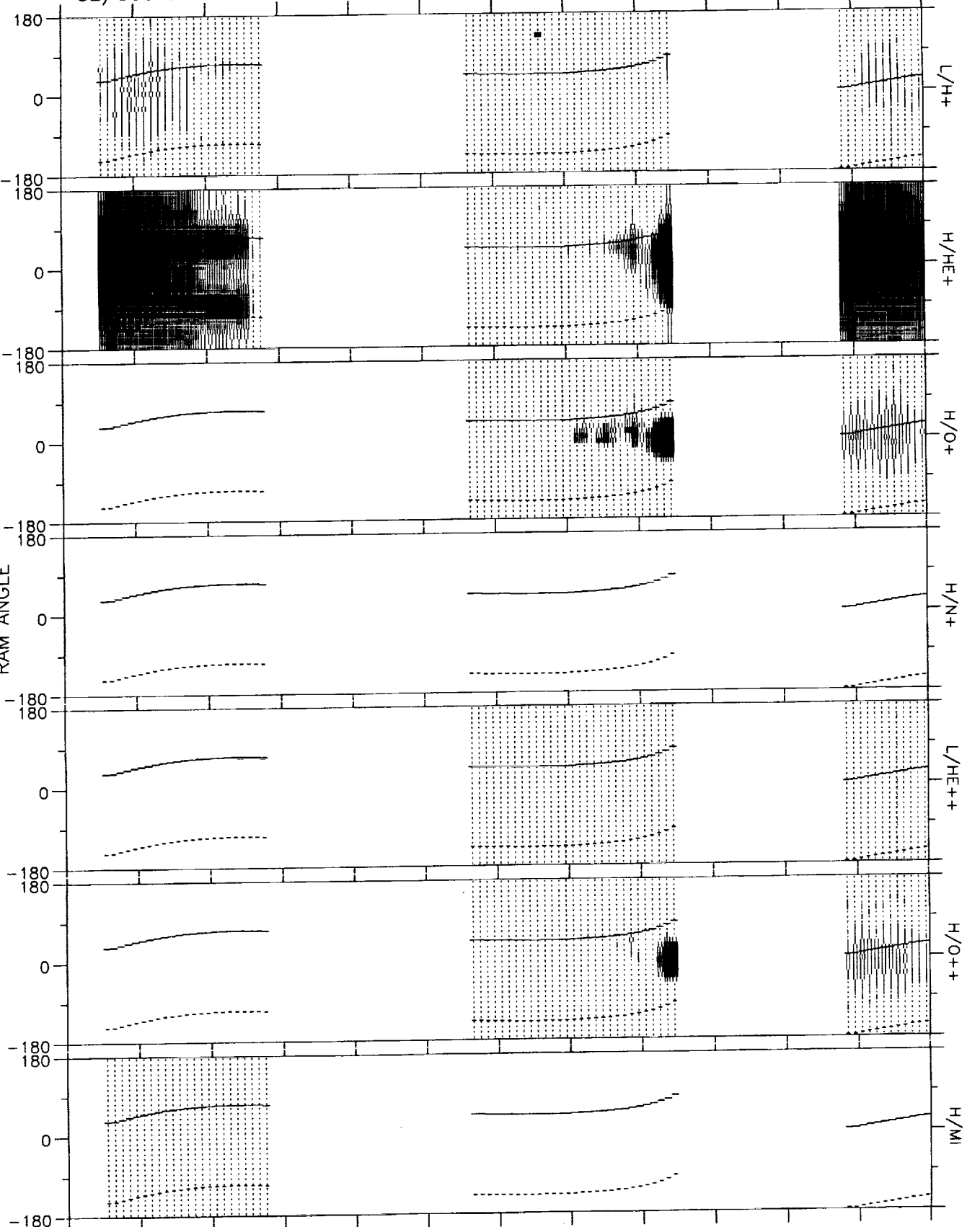
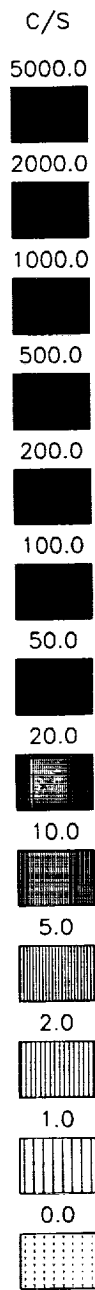
RAM ANGLE



TIME	2140	2220	2300	0000	0000	0100	0140	0220	0300	0000	0420	DEGS
RE	3.5	4.2	4.5	0.0	0.0	4.1	3.4	2.3	1.1	0.0	3.2	HHMM
L	3.6	4.3	5.2	0.0	0.0	14.7	47.0	32.2	1.2	0.0	3.3	RE
MLT	23.4	23.6	23.8	0.0	0.0	0.5	1.5	10.3	11.6	0.0	23.6	
MLAT	-8.71	8.30	21.82	0.00	0.00	59.55	75.87	72.45	*****	0.00	-0.81	HRS
INVLAT	58.4	61.0	64.0	0.0	0.0	74.9	81.6	79.8	23.8	0.0	56.6	DEGS

DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Fri Sep 10 16:18:37 1993

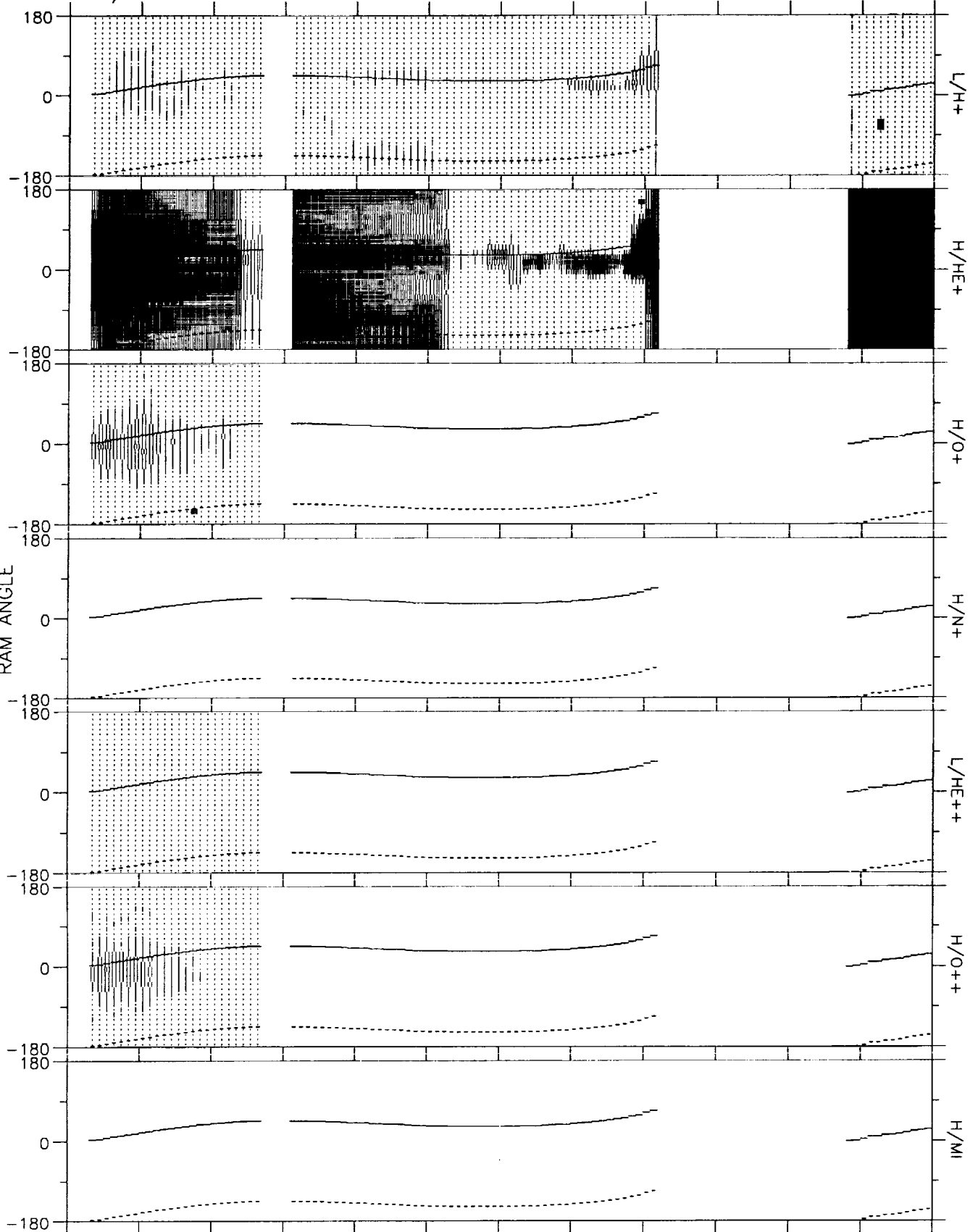
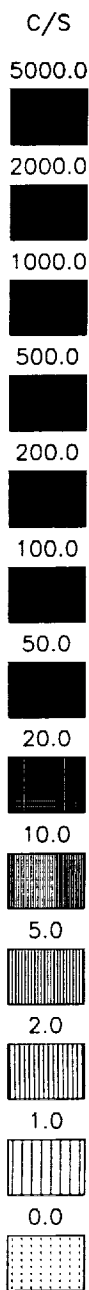
82/066 07-MAR 0400:00 - 1200:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0440	0520	0000	0000	0000	0800	0840	0920	0000	0000	1120	DEGS
RE	3.7	4.3	0.0	0.0	0.0	4.0	3.2	2.0	0.0	0.0	3.4	HHMM
L	3.8	5.1	0.0	0.0	0.0	17.7	50.6	13.7	0.0	0.0	3.5	RE
MLT	23.6	23.5	0.0	0.0	0.0	22.5	20.9	13.5	0.0	0.0	23.7	HRS
MLAT	8.60	22.43	0.00	0.00	0.00	61.62	74.72	66.78	0.00	0.00	****	DEGS
INVLAT	59.2	63.6	0.0	0.0	0.0	76.2	81.9	74.3	0.0	0.0	57.9	

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Fri Sep 10 16:27:26 1993

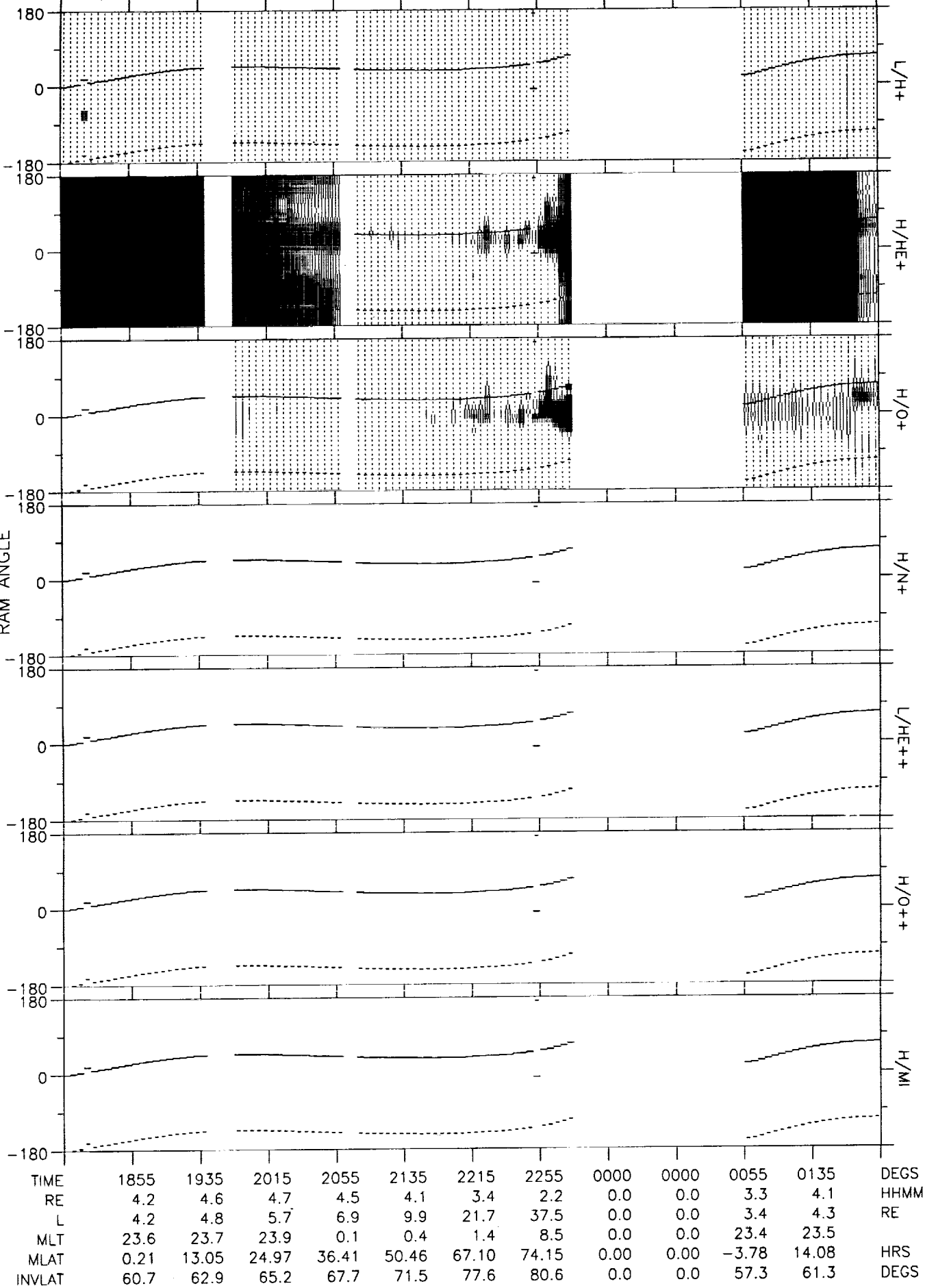
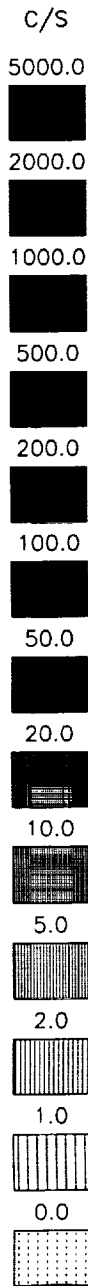
82/066 07-MAR 1100:00 - 1900:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1140	1220	0000	1340	1420	1500	1540	1620	0000	0000	1820	DEGS
RE	3.8	4.4	0.0	4.6	4.4	3.8	3.0	1.7	0.0	0.0	3.6	HHMM
L	3.8	4.4	0.0	5.8	6.8	9.3	24.1	12.1	0.0	0.0	3.8	RE
MLT	23.6	23.5	0.0	23.3	23.2	23.2	23.2	11.5	0.0	0.0	23.5	
MLAT	-3.11	8.16	0.00	26.42	36.32	48.82	67.81	68.87	0.00	0.00	*****	HRS
INVLAT	59.1	61.5	0.0	65.4	67.5	70.8	78.2	73.3	0.0	0.0	59.1	DEGS

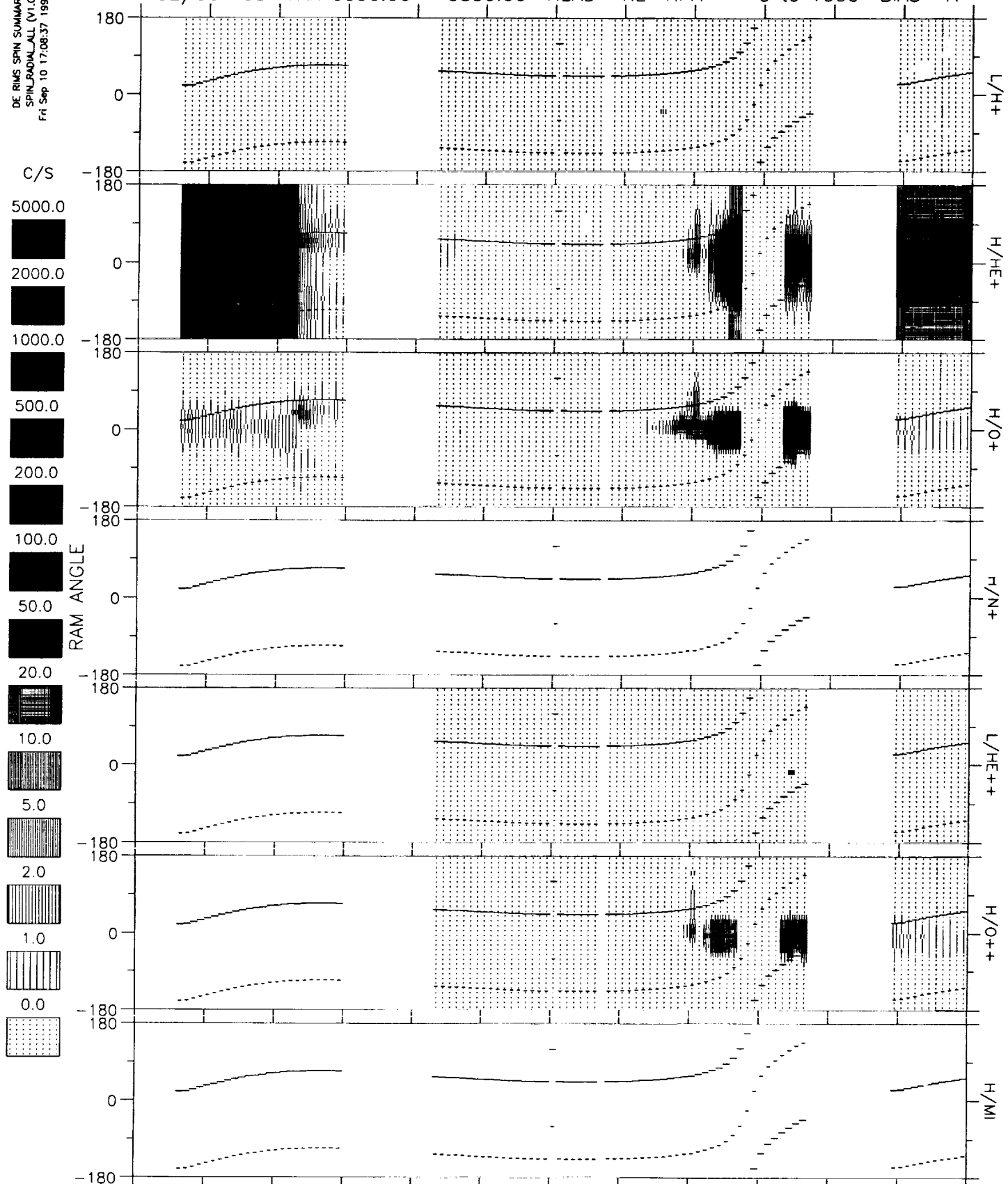
DE RIVUS SPIN SUMMARY
SPIN/DUAL/JALL (V1.0)
Fri Sep 10 16:29:24 1993

82/066 07-MAR 1815:00 - 0215:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Fri Sep 10 17:08:37 1993

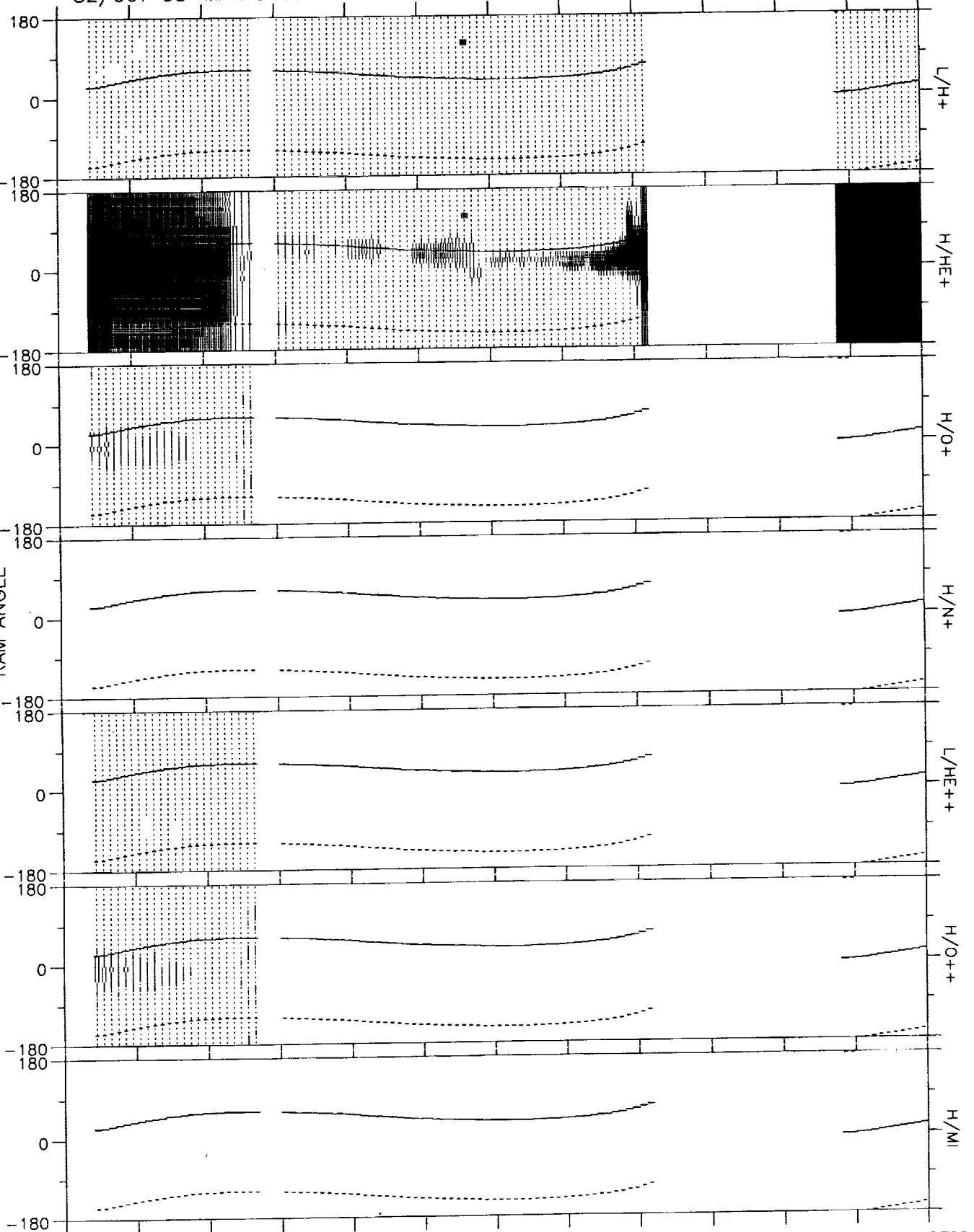
82/067 08-MAR 0030:00 - 0830:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0110	0150	0000	0000	0350	0430	0510	0550	0630	0000	0750	DEGS
RE	3.6	4.3	0.0	0.0	4.5	4.0	3.3	2.1	1.1	0.0	3.4	HHMM
L	3.7	4.8	0.0	0.0	12.8	24.6	100.0	13.7	3.3	0.0	3.4	RE
MLT	23.4	23.6	0.0	0.0	23.6	23.4	22.0	12.3	11.0	0.0	23.7	HRS
MLAT	3.78	19.45	0.00	0.00	54.32	66.77	82.92	64.84	*****	0.00	-2.14	DEGS
INVLAT	58.7	62.8	0.0	0.0	73.8	78.4	85.8	74.3	56.7	0.0	57.2	

DE RIMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Fri Sep 10 17:10:46 1993

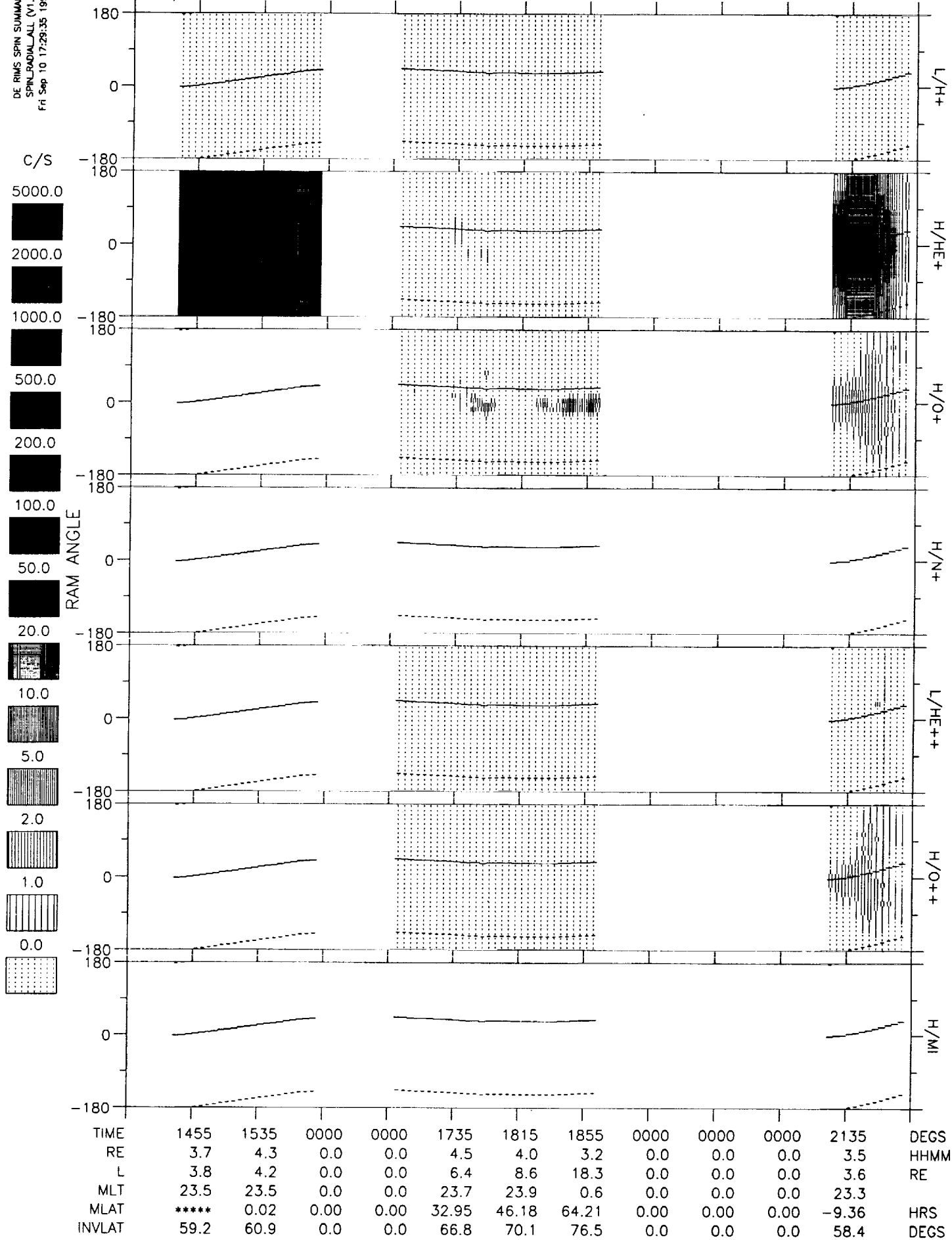
82/067 08-MAR 0730:00 - 1530:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0810	0850	0930	1010	1050	1130	1210	1250	0000	0000	1450	DEGS
RE	3.8	4.4	4.6	4.6	4.4	3.9	3.0	1.8	0.0	0.0	3.6	HHMM
L	3.8	4.7	5.7	6.7	8.1	11.1	28.0	9.7	0.0	0.0	3.8	RE
MLT	23.6	23.4	23.2	23.0	22.8	22.5	21.6	13.0	0.0	0.0	23.5	HRS
MLAT	5.62	17.08	25.99	34.14	42.78	53.51	69.44	67.39	0.00	0.00	*****	DEGS
INVLAT	59.2	62.6	65.1	67.3	69.4	72.6	79.1	71.3	0.0	0.0	59.1	

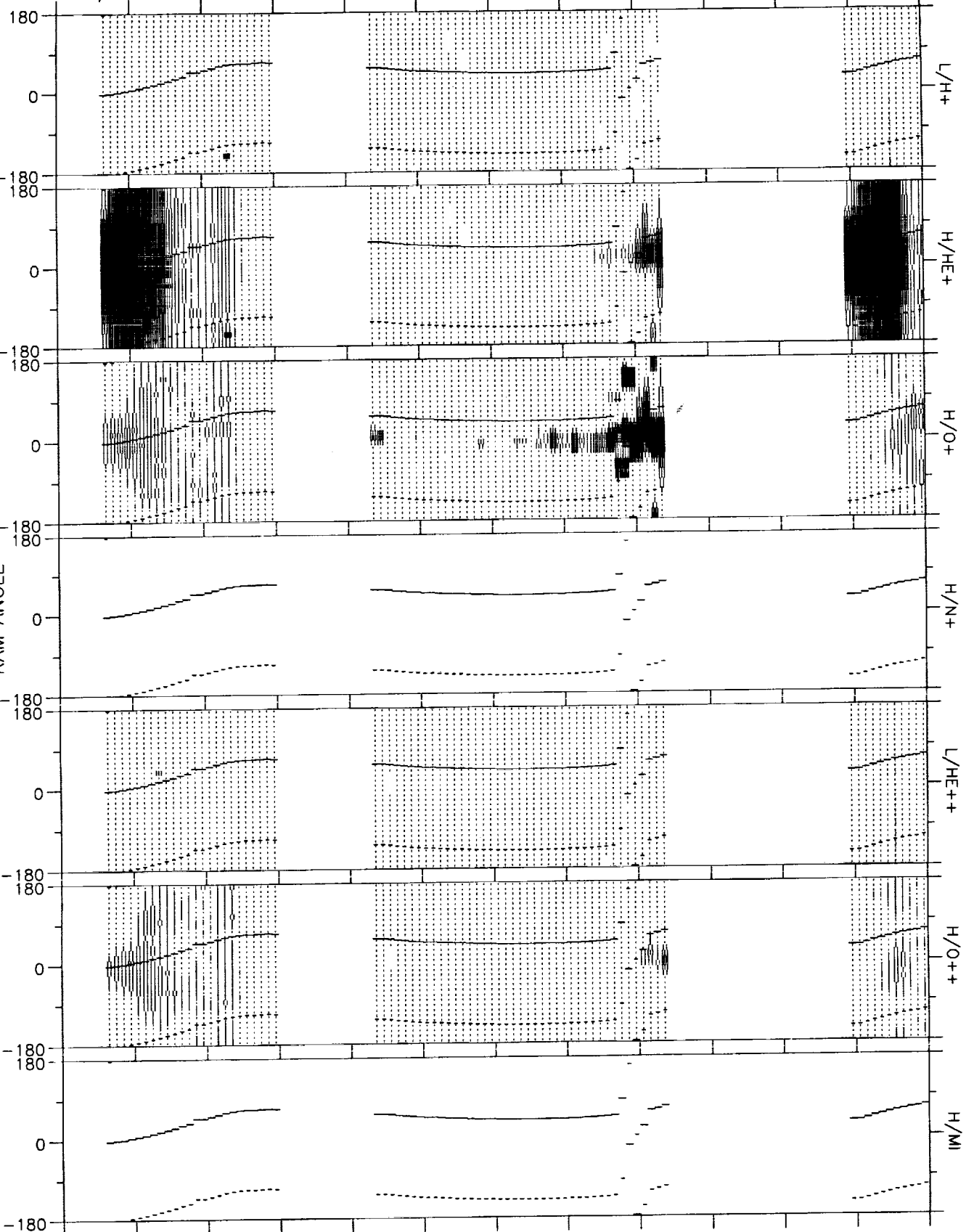
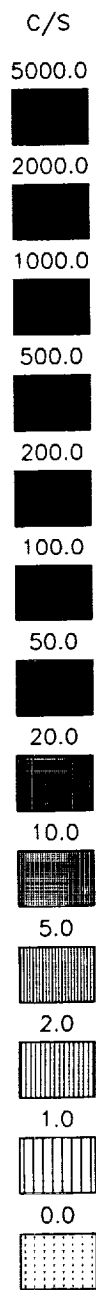
DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Fri Sep 10 17:29:35 1993

82/067 08-MAR 1415:00 - 2215:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Fri Sep 10 17:49:12 1993

82/067 08-MAR 2100:00 - 0500:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	2140	2220	0000	0000	0020	0100	0140	0220	0000	0000	0420	DEGS
RE	3.6	4.2	0.0	0.0	4.5	4.1	3.3	2.2	0.0	0.0	3.3	HHMM
L	3.7	4.3	0.0	0.0	9.2	15.5	57.7	18.9	0.0	0.0	3.4	RE
MLT	23.4	23.5	0.0	0.0	0.1	0.4	1.7	10.5	0.0	0.0	23.4	HRS
MLAT	-6.93	9.48	0.00	0.00	47.20	60.77	77.62	68.08	0.00	0.00	0.98	DEGS
INVLAT	58.7	61.3	0.0	0.0	70.8	75.3	82.4	76.7	0.0	0.0	57.2	

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Fri Sep 10 17:50:56 1993

82/068 09-MAR 0400:00 - 1200:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

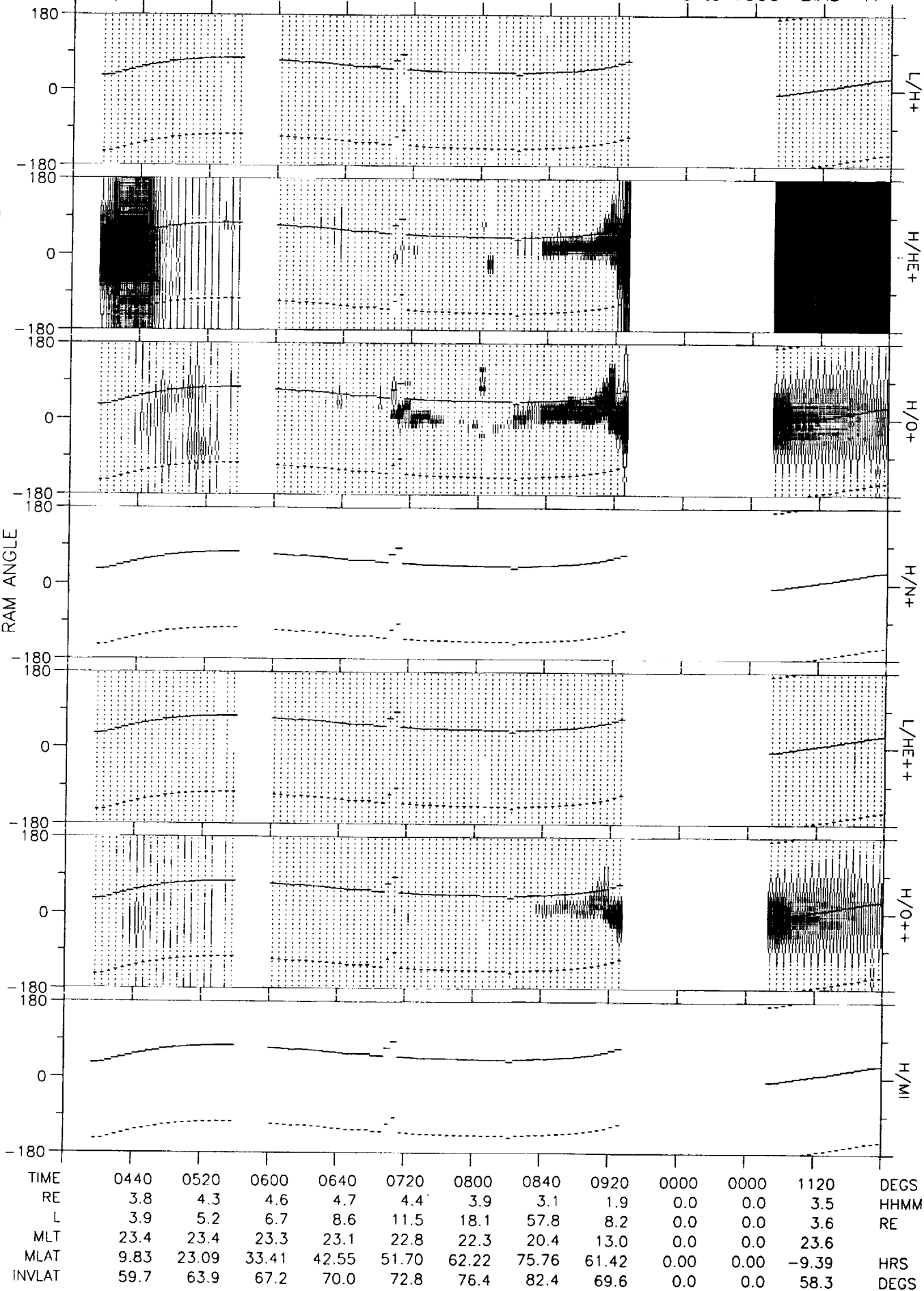
5.0

2.0

1.0

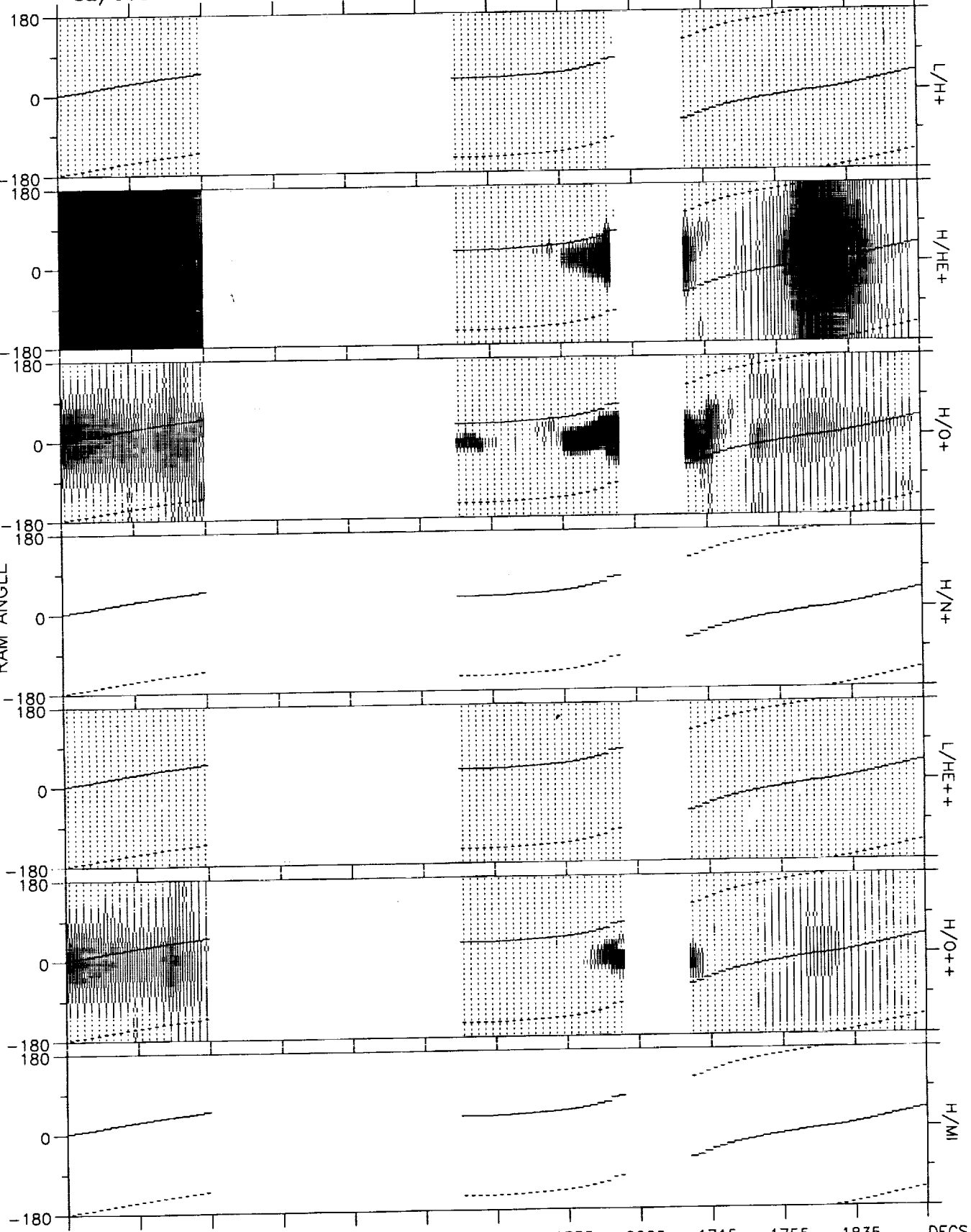
0.0

RAM ANGLE



DE RIMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Fri Sep 10 17:52:59 1993

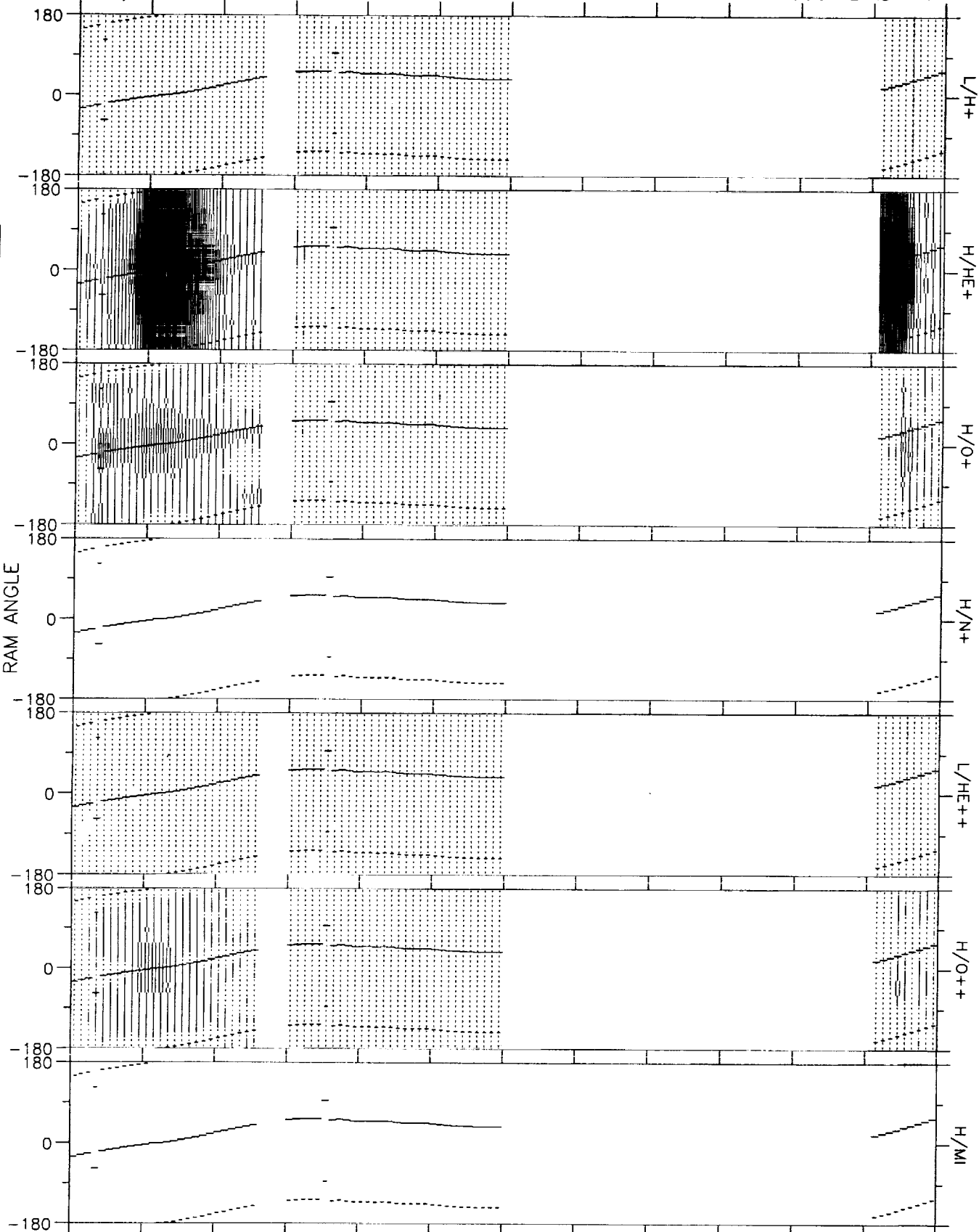
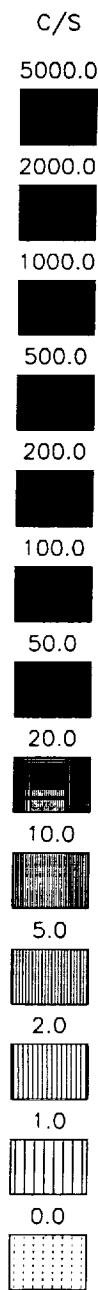
82/068 09-MAR 1115:00 - 1915:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1155	0000	0000	0000	0000	1515	1555	0000	1715	1755	1835	DEGS
RE	4.1	0.0	0.0	0.0	0.0	3.5	2.4	0.0	2.0	3.2	4.0	HHMM
L	4.1	0.0	0.0	0.0	0.0	12.0	100.0	0.0	7.9	3.8	4.0	RE
MLT	23.4	0.0	0.0	0.0	0.0	23.1	23.1	0.0	23.1	23.3	23.4	HRS
MLAT	2.07	0.00	0.00	0.00	0.00	56.20	82.50	0.00	****	****	-5.88	DEGS
INVLAT	60.4	0.0	0.0	0.0	0.0	73.2	86.2	0.0	69.2	59.0	59.9	

DE RMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Fri Sep 10 17:54:58 1993

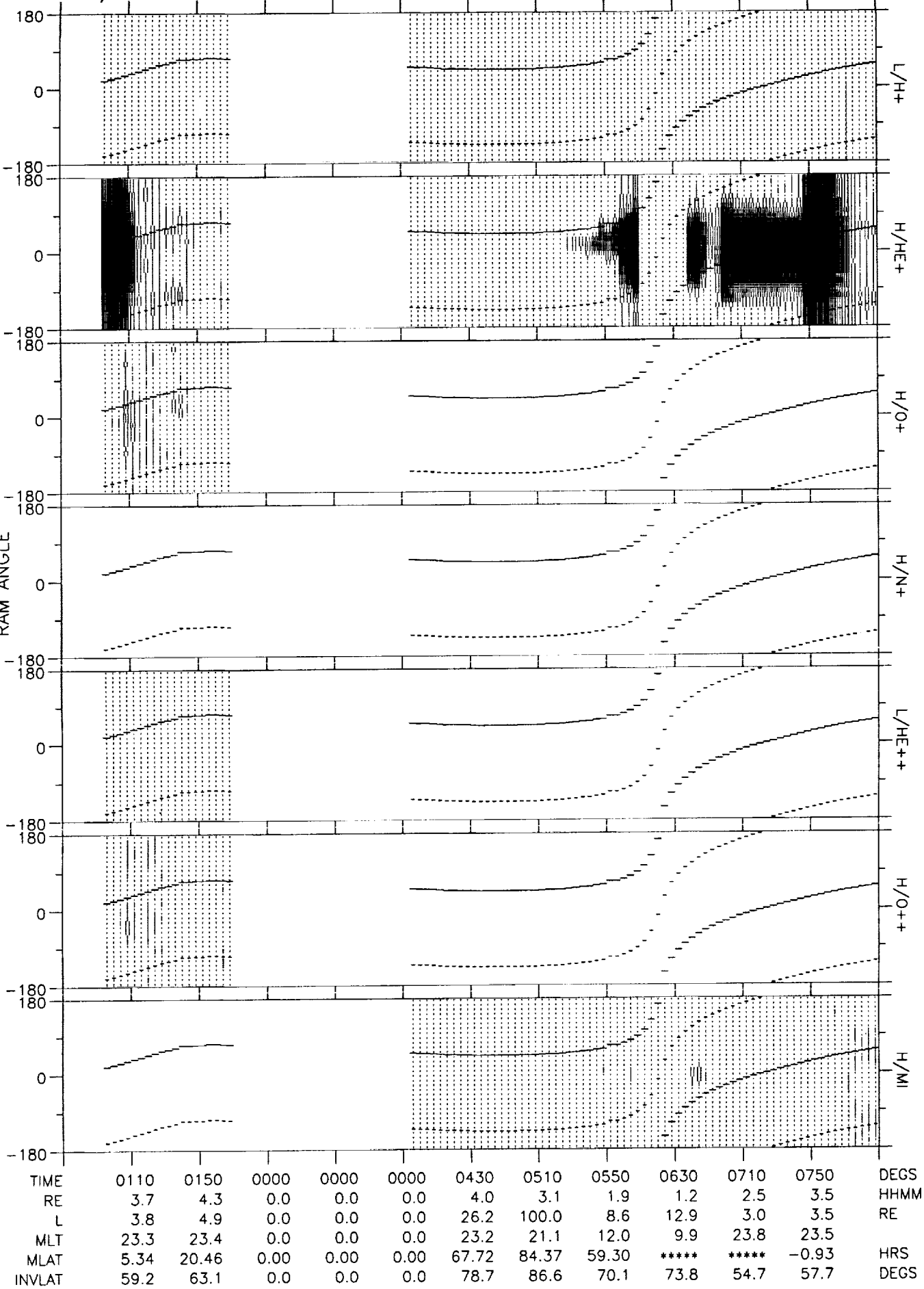
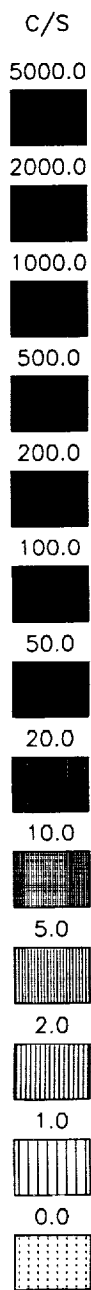
82/068 09-MAR 1730:00 - 0130:00 HEAD= RL RPA= 0 to 1000 BIAS= 4



TIME	1810	1850	1930	2010	2050	0000	0000	0000	0000	0000	0000	DEGS
RE	3.5	4.2	4.6	4.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	3.8	4.2	4.8	5.6	6.9	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	23.4	23.5	23.6	23.8	24.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	*****	-0.43	12.46	24.35	36.42	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	59.0	60.7	62.8	65.0	67.7	0.0	0.0	0.0	0.0	0.0	0.0	DEGS

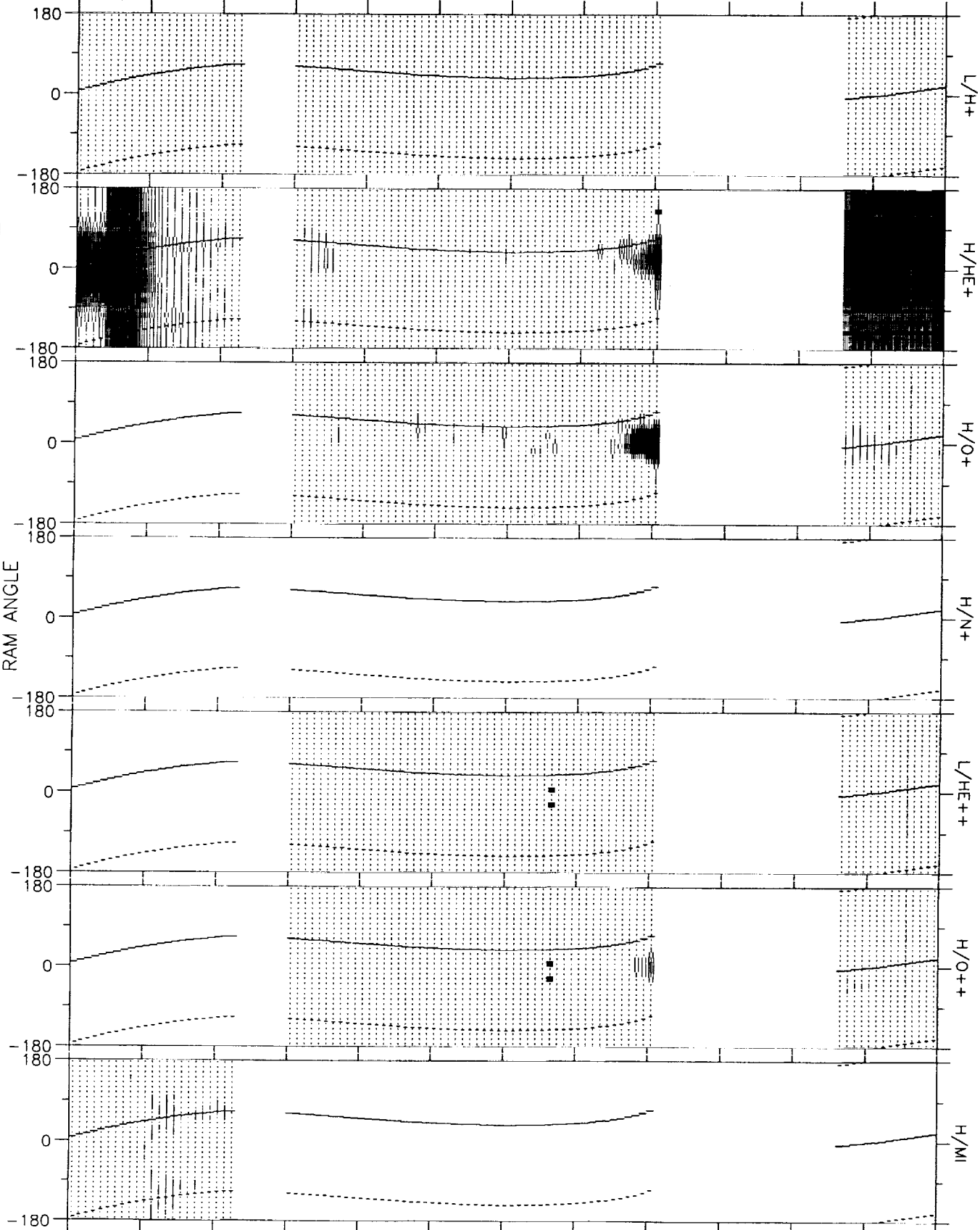
DE RMS SPIN SUMMARY
SPINRADIAL (V1.0)
Fri Sep 10 17:56:36 1993

82/069 10-MAR 0030:00 - 0830:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Fri Sep 10 17:58:15 1993

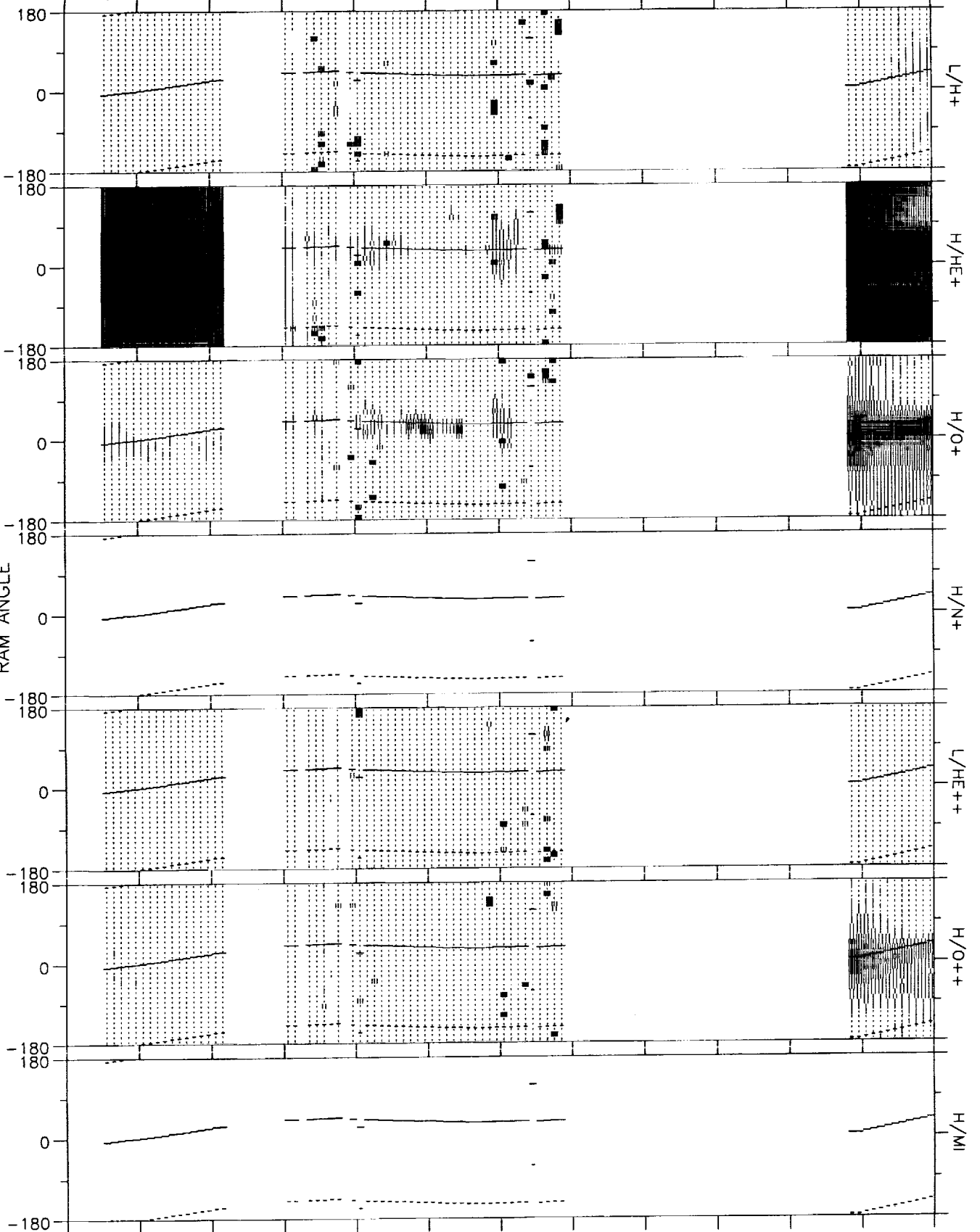
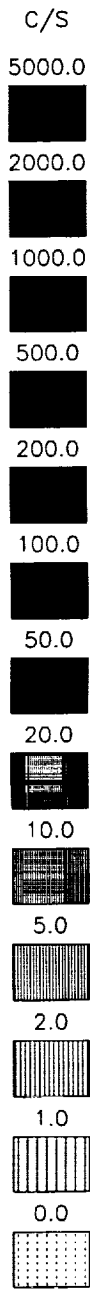
82/069 10-MAR 0730:00 - 1530:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0810	0850	0930	1010	1050	1130	1210	1250	0000	0000	1450	DEGS
RE	3.9	4.4	4.6	4.6	4.4	3.8	2.9	1.7	0.0	0.0	3.7	HHMM
L	3.9	4.8	5.7	6.7	8.1	11.4	32.9	6.1	0.0	0.0	3.8	RE
MLT	23.4	23.3	23.1	22.9	22.7	22.4	21.3	12.5	0.0	0.0	23.4	
MLAT	6.38	17.40	26.15	34.30	43.10	54.25	71.22	61.98	0.00	0.00	*****	HRS
INVLAT	59.6	62.8	65.2	67.3	69.5	72.7	80.0	66.2	0.0	0.0	59.3	DEGS

DE RIMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Fri Sep 10 18:00:37 1993

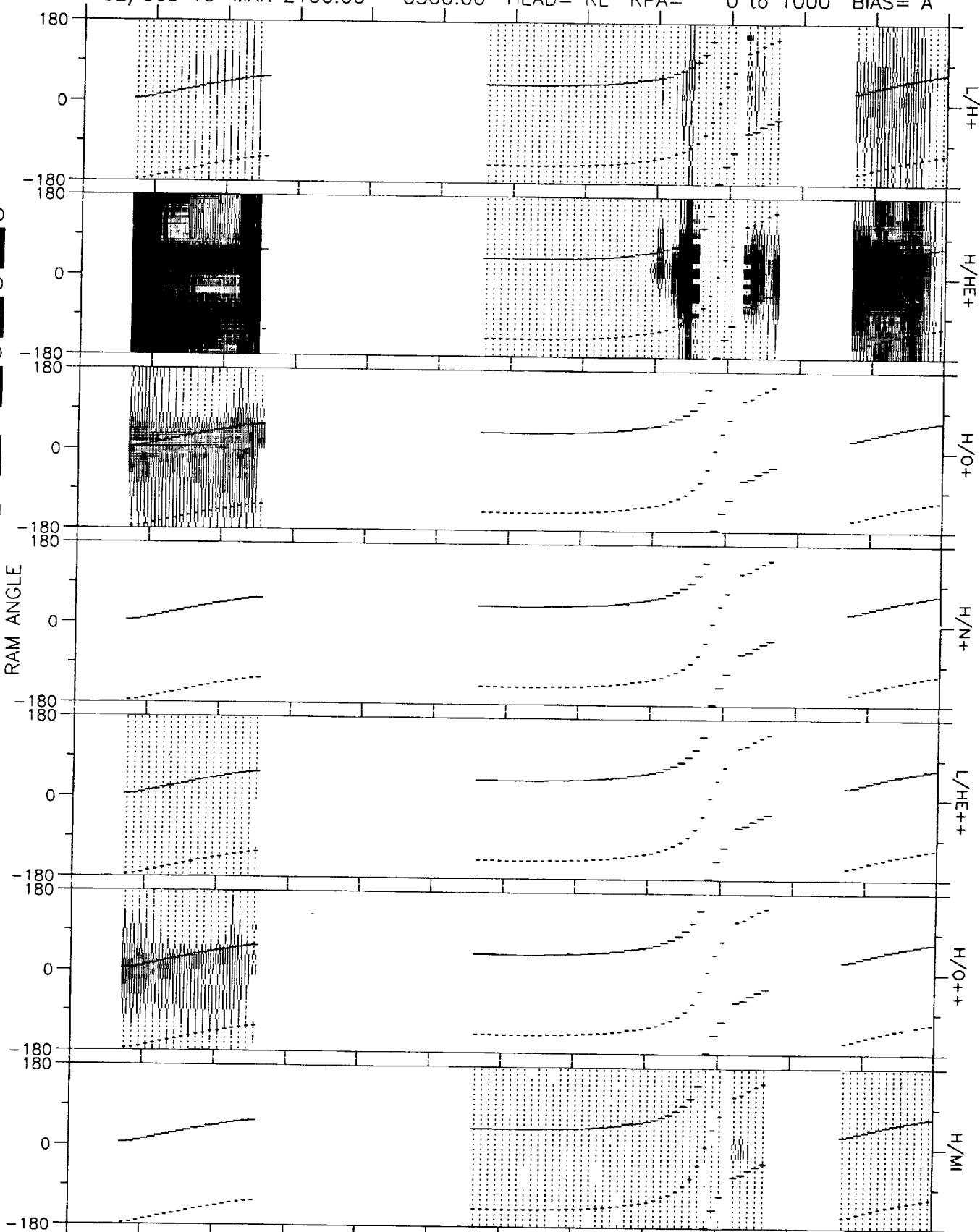
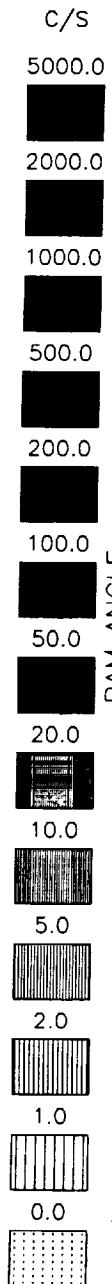
82/069 10-MAR 1415:00 - 2215:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1455	1535	1615	1655	1735	1815	0000	0000	0000	0000	2135	DEGS
RE	3.8	4.3	4.6	4.6	4.4	3.9	0.0	0.0	0.0	0.0	3.6	HHMM
L	3.9	4.3	4.8	5.5	6.5	8.8	0.0	0.0	0.0	0.0	3.7	RE
MLT	23.4	23.4	23.4	23.4	23.6	23.9	0.0	0.0	0.0	0.0	23.2	
MLAT	*****	0.73	11.76	22.38	33.77	47.40	0.00	0.00	0.00	0.00	-7.56	HRS
INVLAT	59.5	61.1	62.9	64.7	66.9	70.3	0.0	0.0	0.0	0.0	58.7	DEGS

DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Fri Sep 10 18:01:55 1993

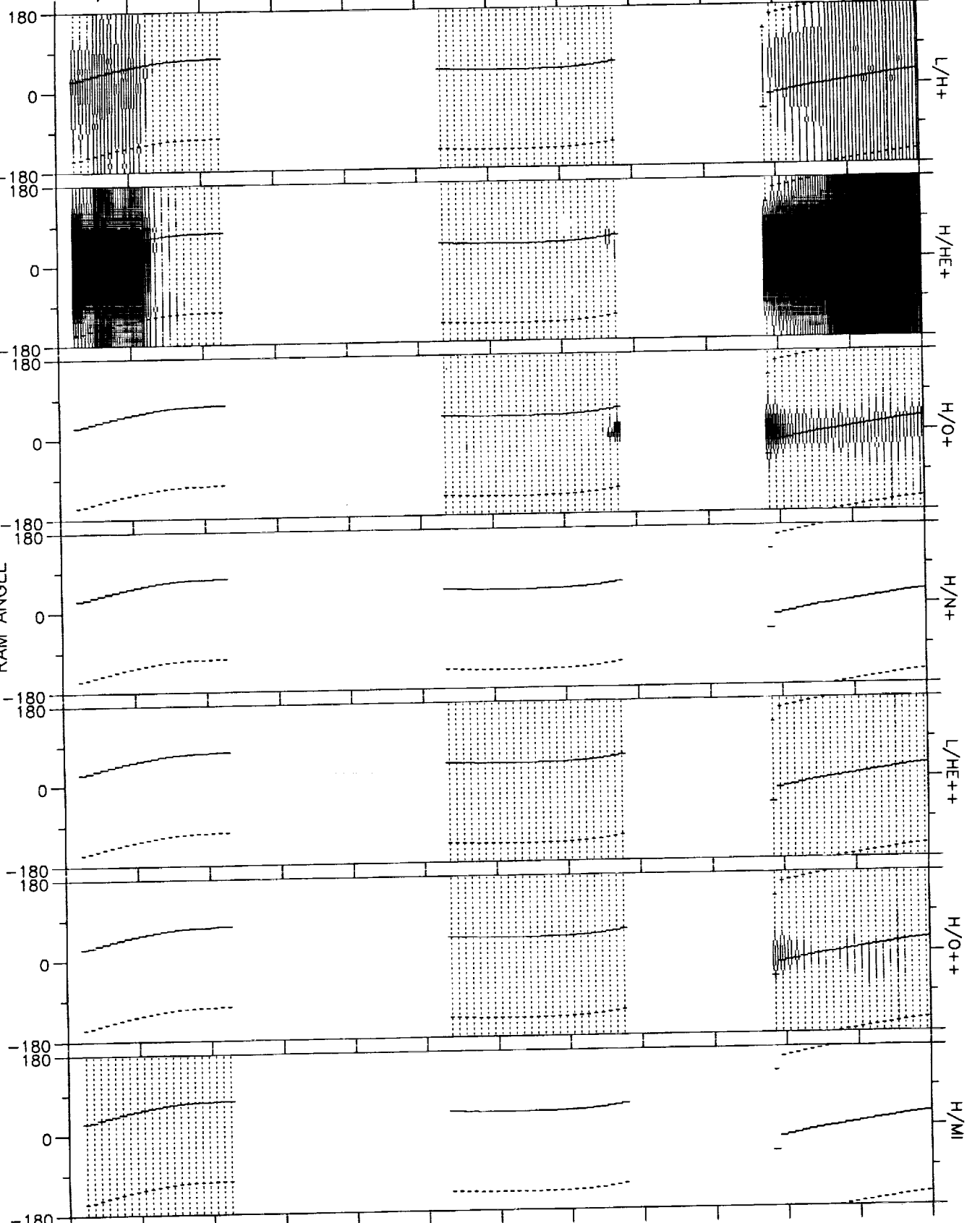
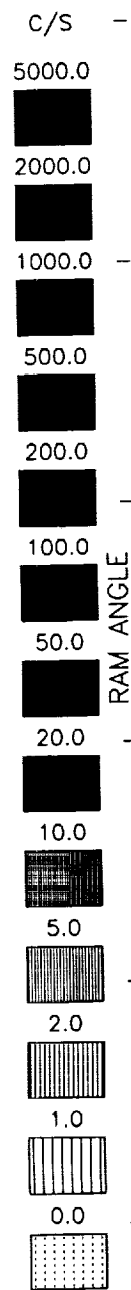
82/069 10-MAR 2100:00 - 0500:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	2140	2220	0000	0000	0000	0100	0140	0220	0300	0000	0420	DEGS
RE	3.7	4.3	0.0	0.0	0.0	4.0	3.2	2.0	1.1	0.0	3.5	HHMM
L	3.8	4.4	0.0	0.0	0.0	16.4	74.2	11.3	8.7	0.0	3.5	RE
MLT	23.3	23.4	0.0	0.0	0.0	0.3	1.9	10.6	11.7	0.0	23.3	
MLAT	-5.17	10.69	0.00	0.00	0.00	62.08	79.46	62.81	****	0.00	2.57	HRS
INVLAT	59.0	61.6	0.0	0.0	0.0	75.7	83.3	72.7	69.9	0.0	57.8	DEGS

DE RIMS SPIN SUMMARY
SPIN/RADIAL (V1.0)
Fri Sep 10 18:05:04 1993

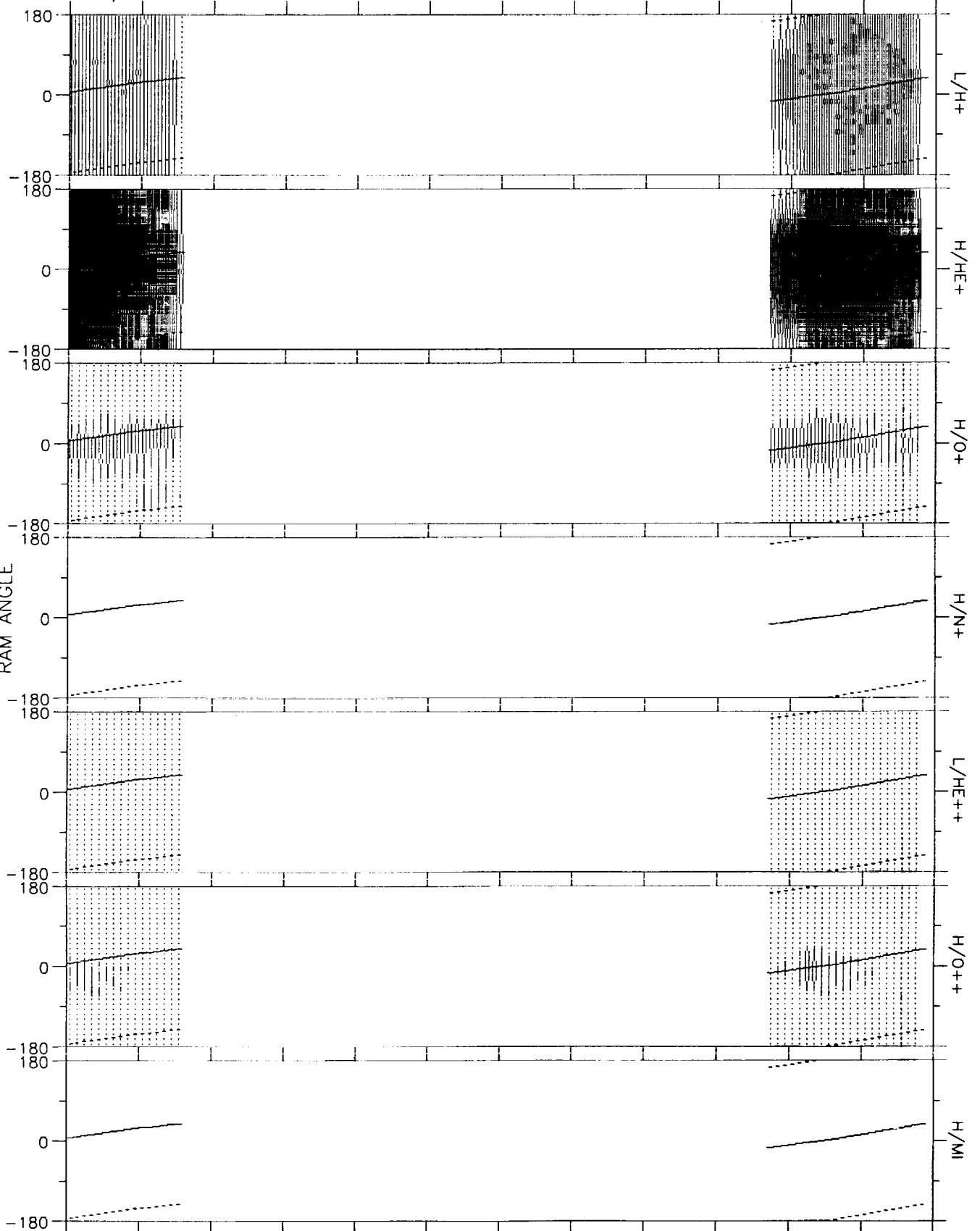
82/070 11-MAR 0400:00 - 1200:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0440	0520	0000	0000	0000	0800	0840	0000	0000	1040	1120	DEGS
RE	3.8	4.4	0.0	0.0	0.0	3.8	3.0	0.0	0.0	2.7	3.6	HHMM
L	4.0	5.3	0.0	0.0	0.0	18.6	67.8	0.0	0.0	3.5	3.7	RE
MLT	23.3	23.3	0.0	0.0	0.0	22.1	19.8	0.0	0.0	23.8	23.4	HRS
MLAT	10.97	23.71	0.00	0.00	0.00	62.88	76.84	0.00	0.00	*****	-8.38	DEGS
INVLAT	60.2	64.2	0.0	0.0	0.0	76.6	83.0	0.0	0.0	57.8	58.6	

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Fri Sep 10 18:06:48 1993

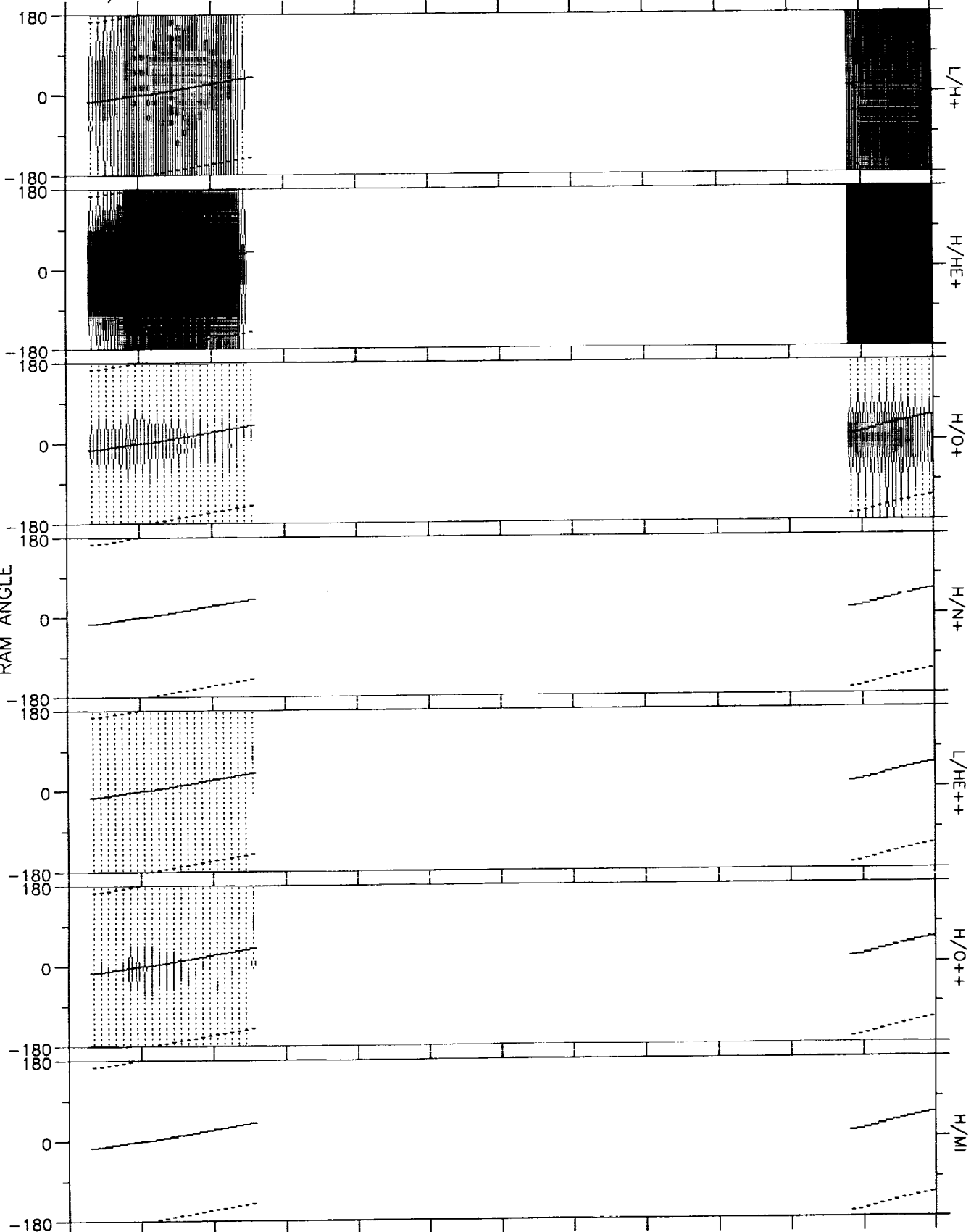
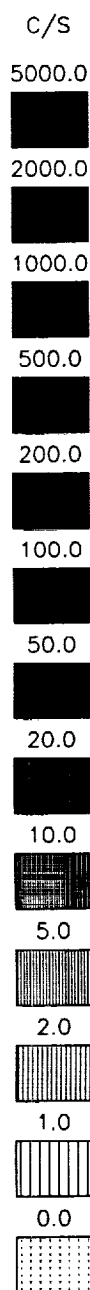
82/070 11-MAR 1115:00 - 1915:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1155	0000	0000	0000	0000	0000	0000	0000	0000	0000	1755	1835	DEGS
RE	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	4.1	HHMM
L	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	4.0	RE
MLT	23.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.2	23.3	
MLAT	2.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	-4.65	HRS
INVLAT	60.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.1	60.2	DEGS

DE RMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Fri Sep 10 18:08:25 1993

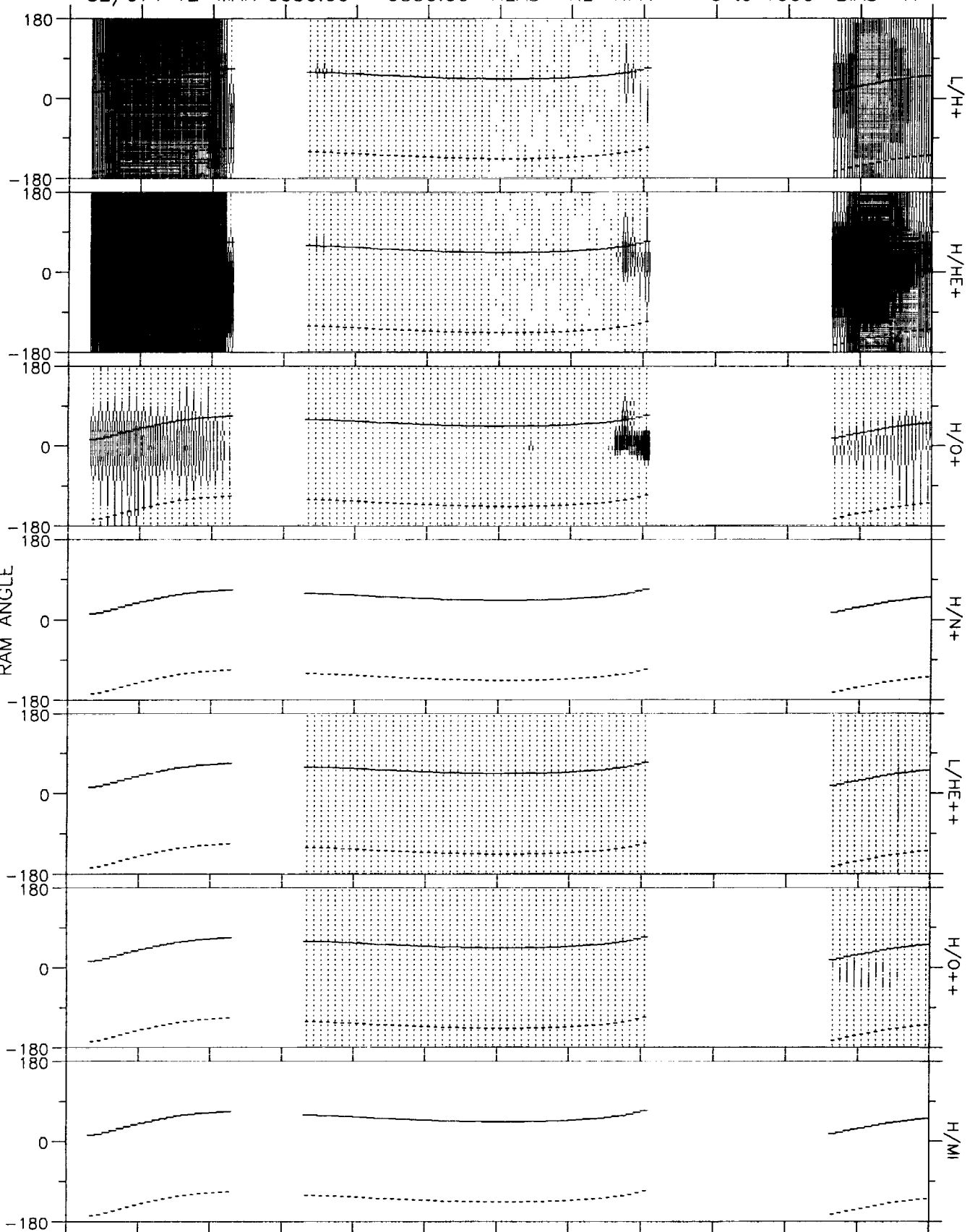
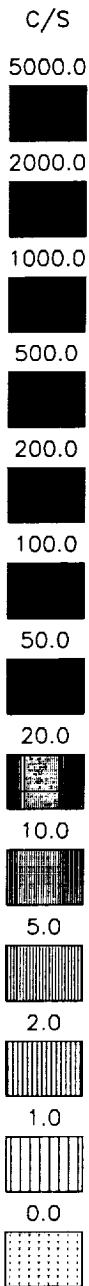
82/070 11-MAR 1730:00 - 0130:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1810	1850	0000	0000	0000	0000	0000	0000	0000	0000	0050	DEGS
RE	3.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	HHMM
L	3.8	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	RE
MLT	23.2	23.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.1	
MLAT	*****	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.48	HRS
INVLAT	59.2	60.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.7	DEGS

DE RMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Fri Sep 10 18:10:01 1993

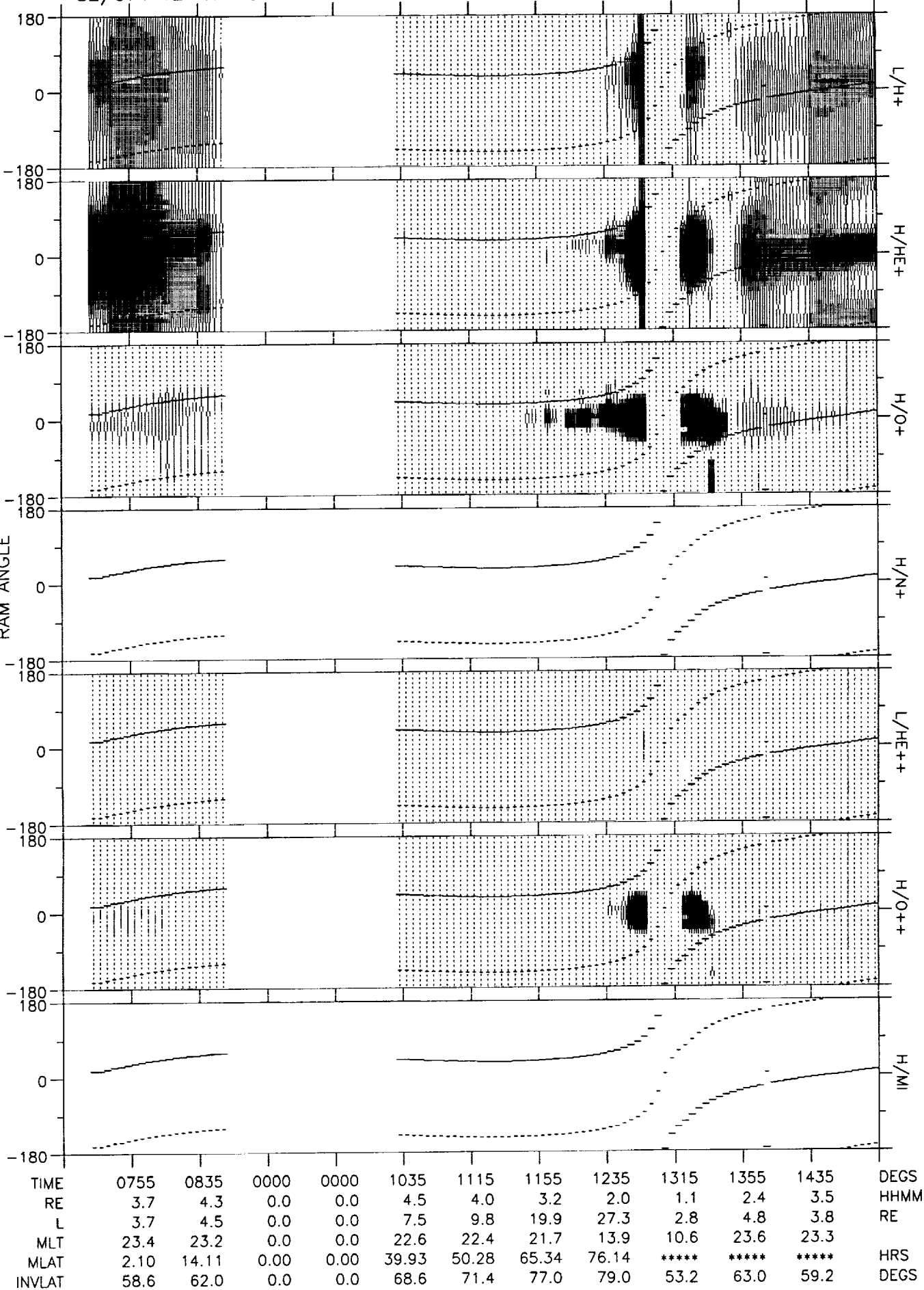
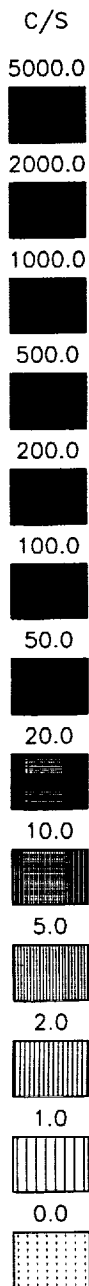
82/071 12-MAR 0030:00 - 0830:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0110	0150	0000	0310	0350	0430	0510	0550	0000	0000	0750	DEGS
RE	3.8	4.4	0.0	4.6	4.4	3.9	3.0	1.9	0.0	0.0	3.6	HHMM
L	3.9	5.0	0.0	9.0	13.6	28.1	-0.0	7.4	0.0	0.0	3.6	RE
MLT	23.2	23.3	0.0	23.4	23.3	23.0	19.7	11.9	0.0	0.0	23.4	HRS
MLAT	6.82	21.43	0.00	44.54	55.80	68.76	85.69	57.38	0.00	0.00	0.19	DEGS
INVLAT	59.6	63.5	0.0	70.5	74.2	79.1	-0.0	68.5	0.0	0.0	58.1	

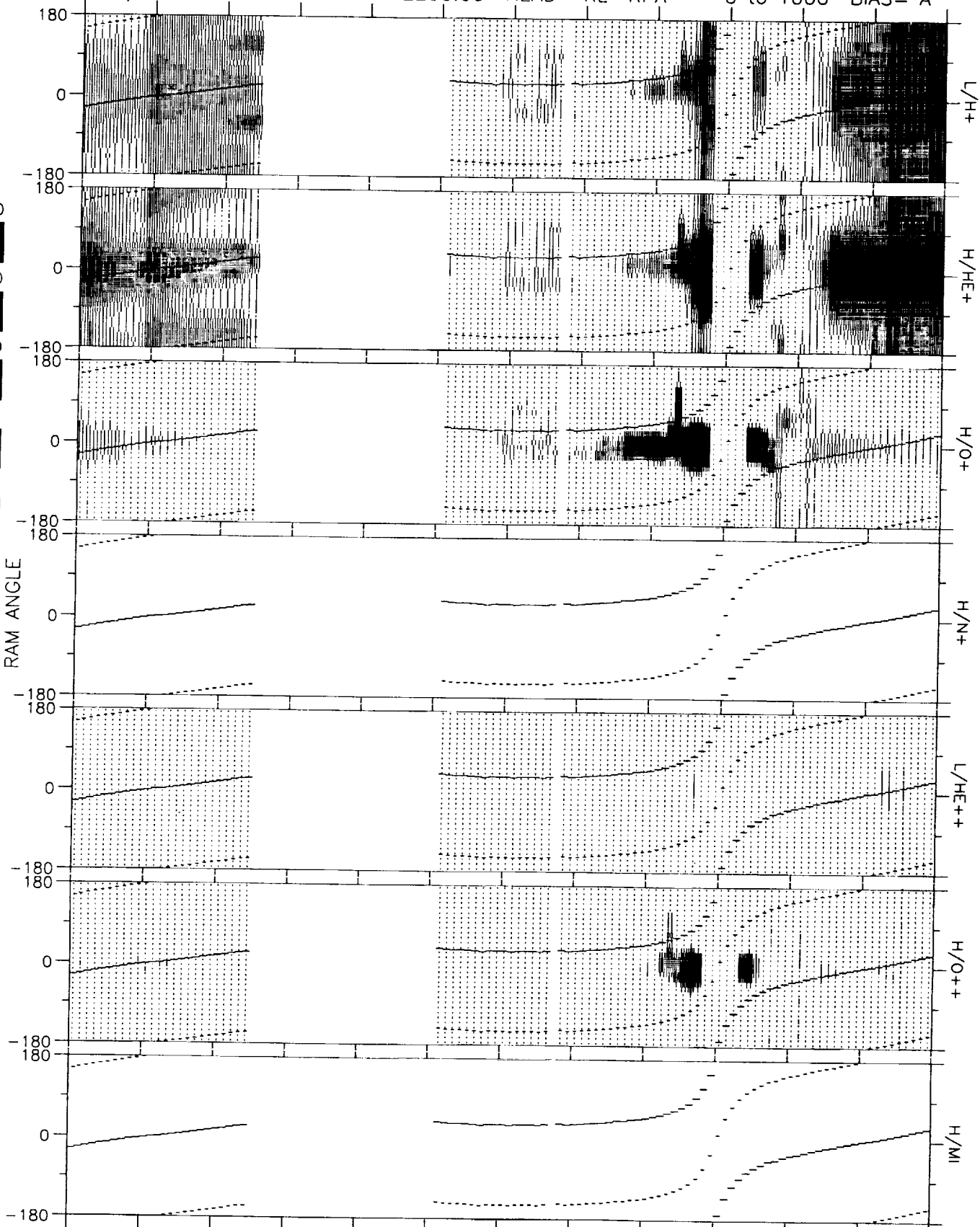
DE RMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Fri Sep 10 18:12:02 1993

82/071 12-MAR 0715:00 - 1515:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Fri Sep 10 18:14:08 1993

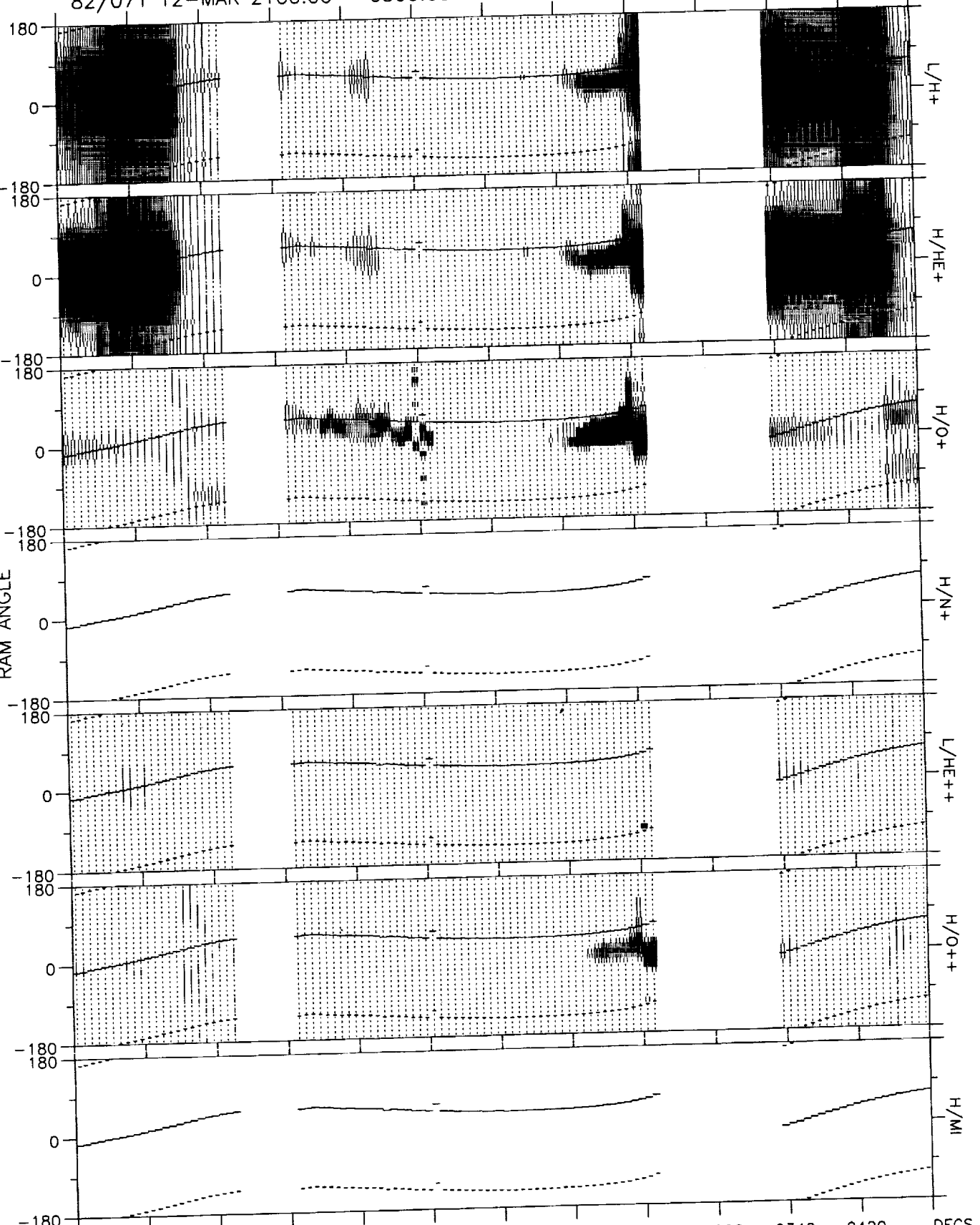
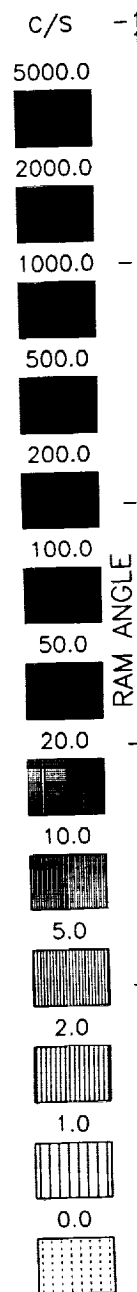
82/071 12-MAR 1400:00 - 2200:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1440	1520	0000	0000	0000	1800	1840	1920	2000	2040	2120	DEGS
RE	3.6	4.2	0.0	0.0	0.0	4.1	3.3	2.2	1.1	2.2	3.4	HHMM
L	3.8	4.2	0.0	0.0	0.0	7.8	14.2	-0.0	1.4	4.6	3.6	RE
MLT	23.3	23.2	0.0	0.0	0.0	23.6	0.2	6.5	11.6	22.5	23.0	
MLAT	****	-3.02	0.00	0.00	0.00	42.94	60.05	80.80	****	****	****	HRS
INVLAT	59.3	60.7	0.0	0.0	0.0	69.0	74.6	-0.0	31.9	62.1	58.4	DEGS

DE RMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Fri Sep 10 18:16:20 1993

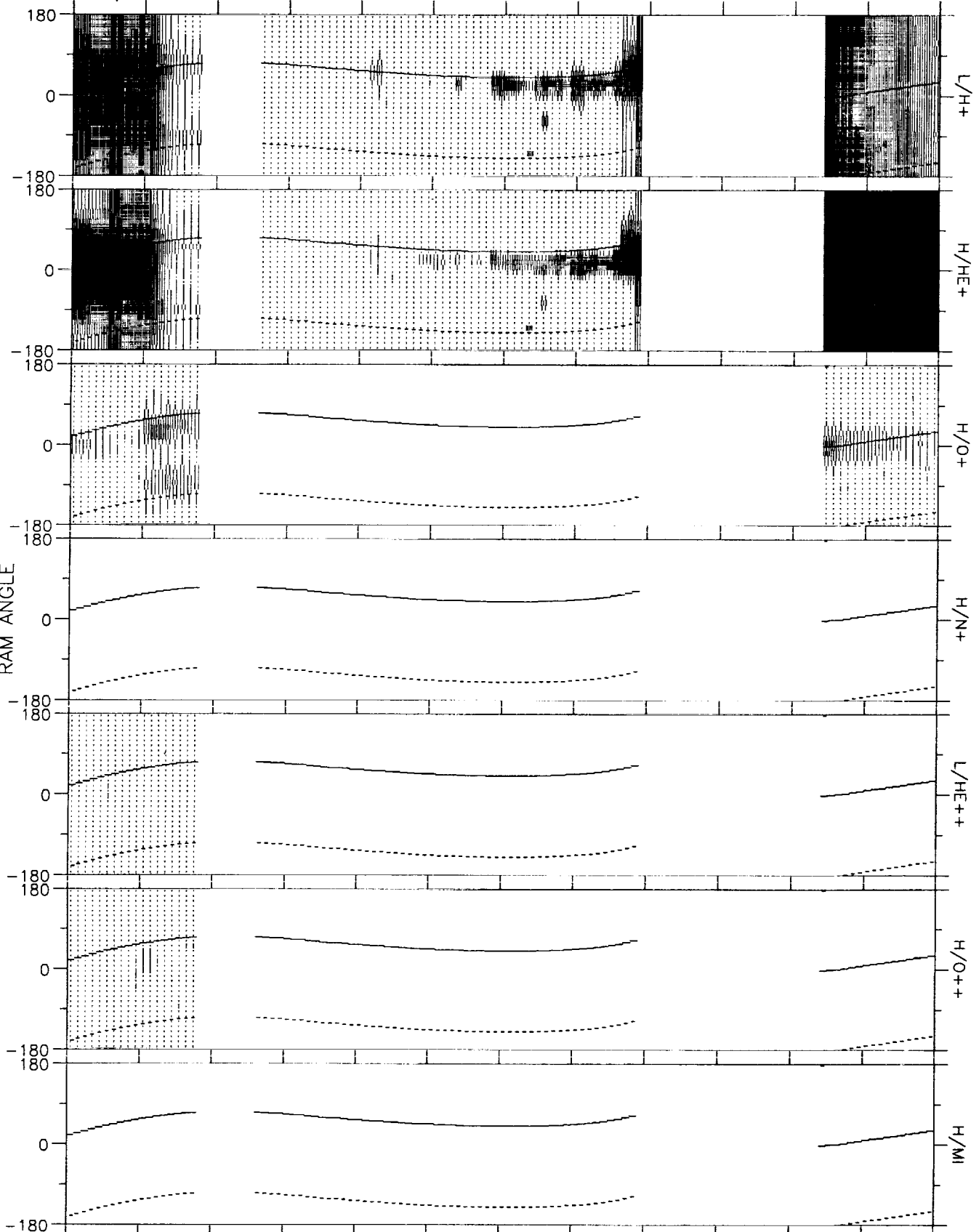
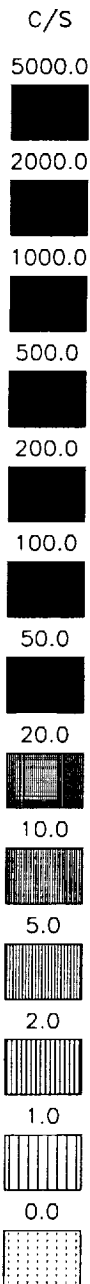
82/071 12-MAR 2100:00 - 0500:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	2140	2220	0000	2340	0020	0100	0140	0220	0000	0340	0420	DEGS
RE	3.8	4.3	0.0	4.7	4.4	3.9	3.1	1.9	0.0	2.5	3.6	HHMM
L	3.8	4.5	0.0	7.0	9.8	17.5	-0.0	6.8	0.0	2.9	3.6	RE
MLT	23.2	23.4	0.0	23.7	23.9	0.2	2.3	10.7	0.0	23.2	23.2	HRS
MLAT	-3.55	11.83	0.00	36.81	49.22	63.37	81.30	56.36	0.00	****	4.06	DEGS
INVLAT	59.3	61.9	0.0	67.8	71.3	76.2	-0.0	67.5	0.0	54.2	58.3	

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Fri Sep 10 18:19:32 1993

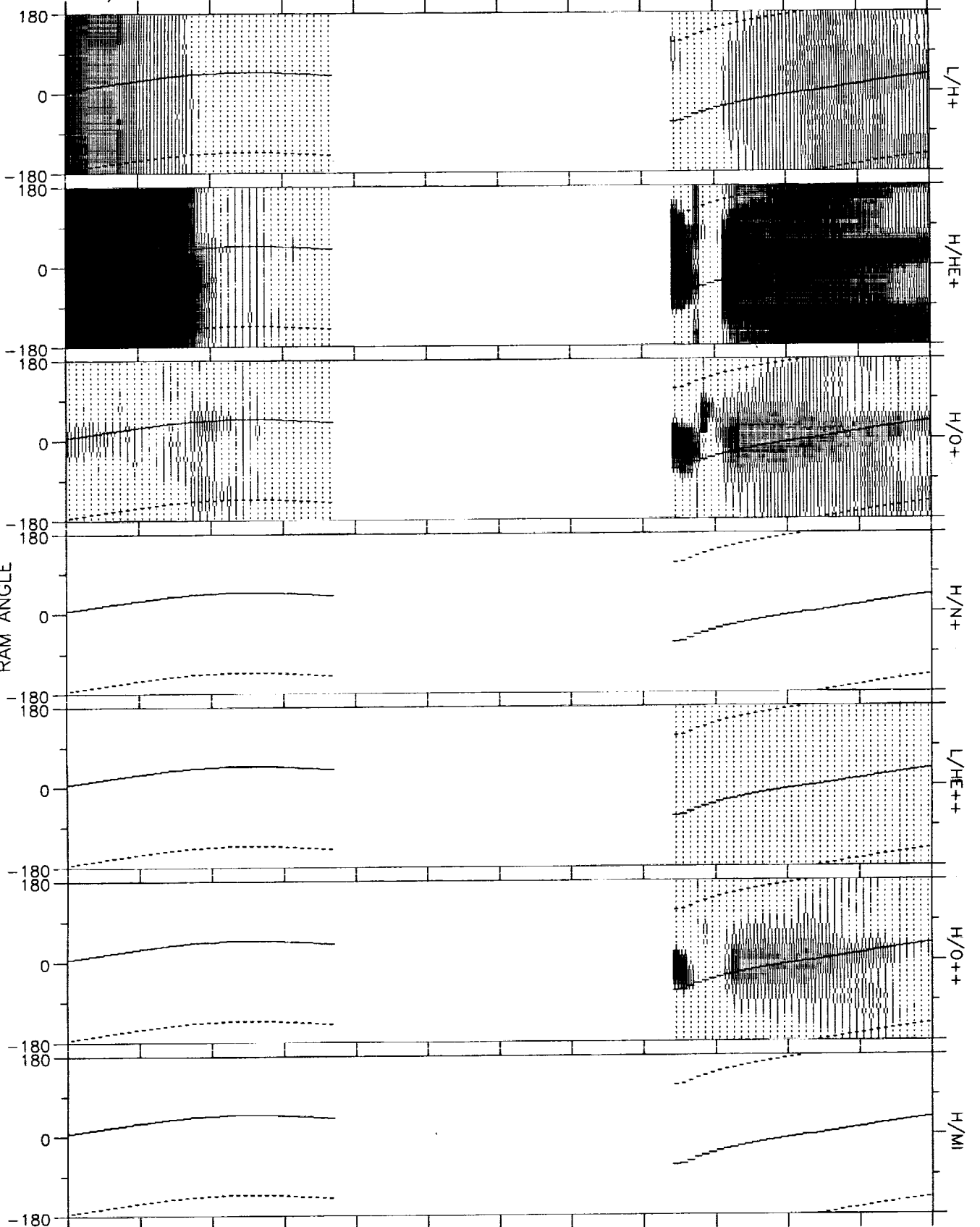
82/072 13-MAR 0400:00 - 1200:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0440	0000	0600	0640	0720	0800	0840	0000	0000	0000	1120	DEGS
RE	3.9	0.0	4.7	4.6	4.3	3.8	2.8	0.0	0.0	0.0	3.7	HHMM
L	4.2	0.0	6.8	8.7	11.6	19.1	80.5	0.0	0.0	0.0	3.8	RE
MLT	23.2	0.0	23.0	22.8	22.5	21.9	19.1	0.0	0.0	0.0	23.3	HRS
MLAT	11.99	0.00	34.13	43.13	52.45	63.58	77.84	0.00	0.00	0.00	-7.46	DEGS
INVLAT	60.6	0.0	67.5	70.2	72.9	76.8	83.6	0.0	0.0	0.0	59.0	

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Fri Sep 10 16:21:24 1993

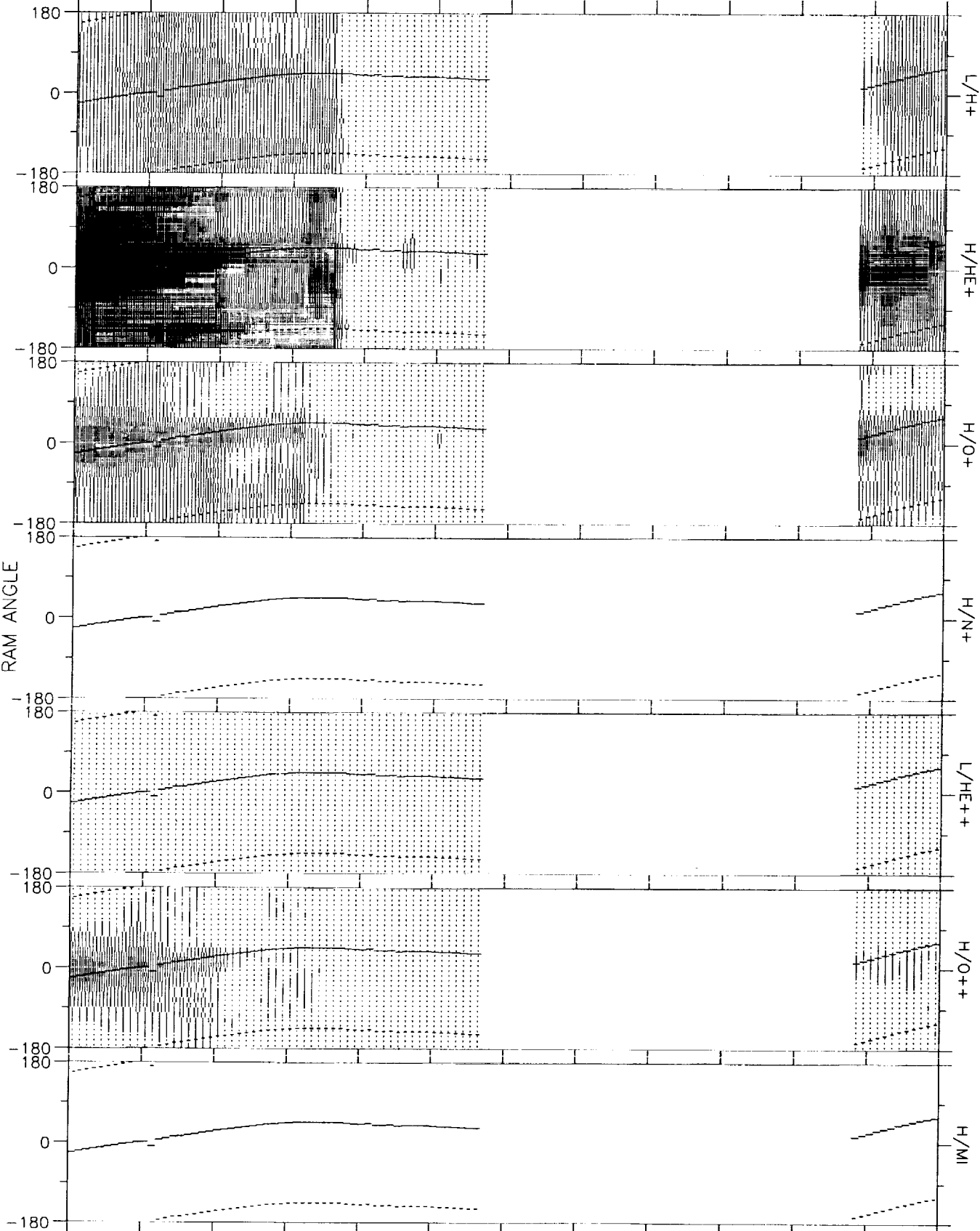
82/072 13-MAR 1115:00 - 1915:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1155	1235	1315	0000	0000	0000	0000	0000	1715	1755	1835	DEGS
RE	4.3	4.6	4.7	0.0	0.0	0.0	0.0	0.0	2.3	3.4	4.1	HHMM
L	4.2	4.8	5.4	0.0	0.0	0.0	0.0	0.0	5.4	3.8	4.1	RE
MLT	23.1	23.0	22.9	0.0	0.0	0.0	0.0	0.0	22.9	23.1	23.2	HRS
MLAT	3.04	12.70	21.71	0.00	0.00	0.00	0.00	0.00	*****	*****	-3.47	DEGS
INVLAT	60.8	62.7	64.4	0.0	0.0	0.0	0.0	0.0	64.4	59.2	60.4	

DE RIMS SPIN SUMMARY
SPIN_RADIAL.ALL (V1.0)
Fri Sep 10 18:23:32 1993

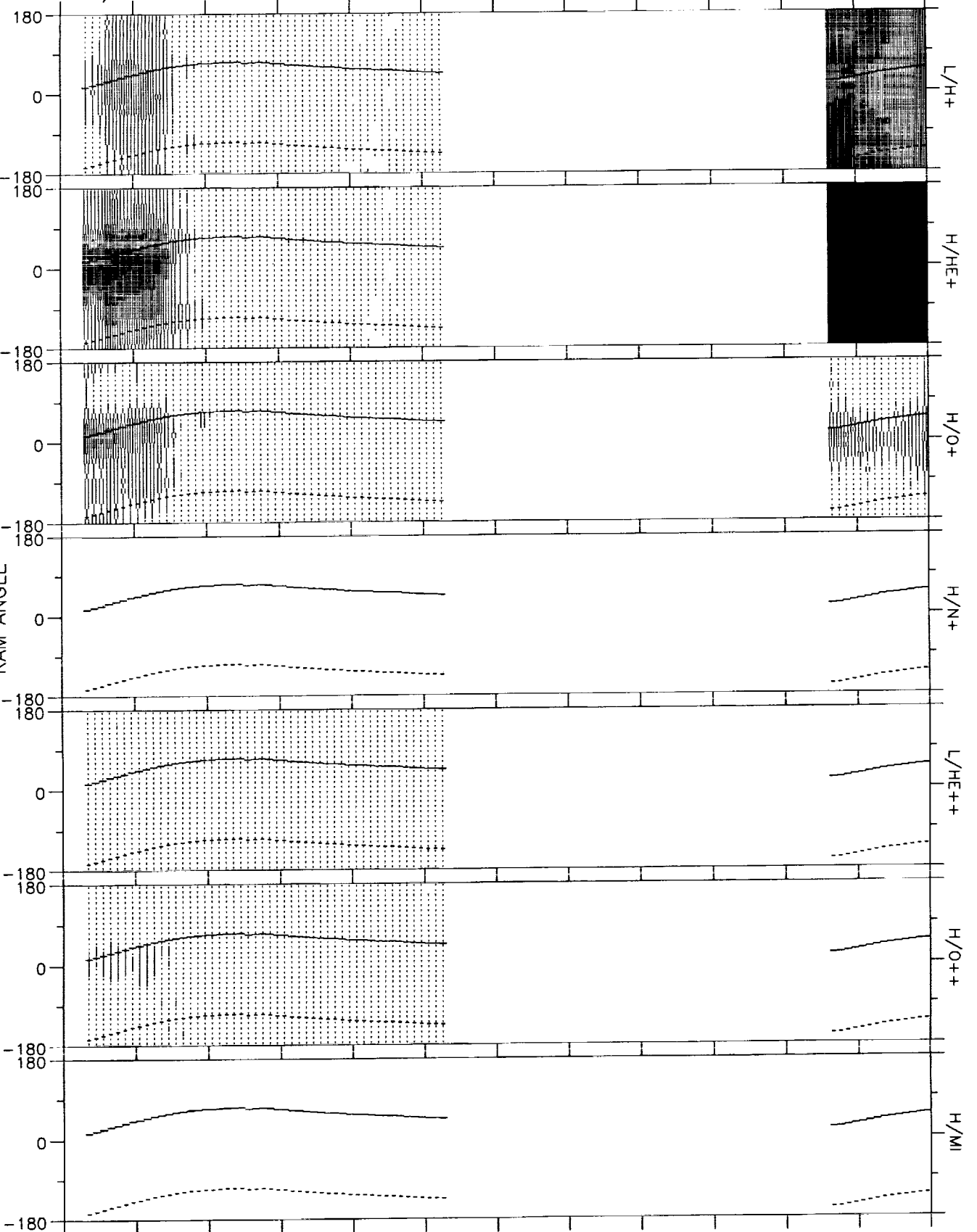
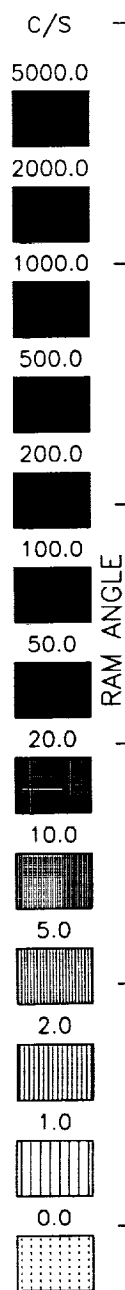
82/072 13-MAR 1730:00 - 0130:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1810	1850	1930	2010	2050	0000	0000	0000	0000	0000	0050	DEGS
RE	3.7	4.3	4.6	4.7	4.4	0.0	0.0	0.0	0.0	0.0	3.5	HHMM
L	3.9	4.3	4.9	5.8	7.1	0.0	0.0	0.0	0.0	0.0	3.6	RE
MLT	23.1	23.2	23.4	23.6	23.8	0.0	0.0	0.0	0.0	0.0	23.0	
MLAT	****	1.70	14.26	26.12	38.41	0.00	0.00	0.00	0.00	0.00	-0.60	HRS
INVLAT	59.5	61.1	63.2	65.4	68.0	0.0	0.0	0.0	0.0	0.0	58.3	DEGS

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Fri Sep 24 16:40:42 1993

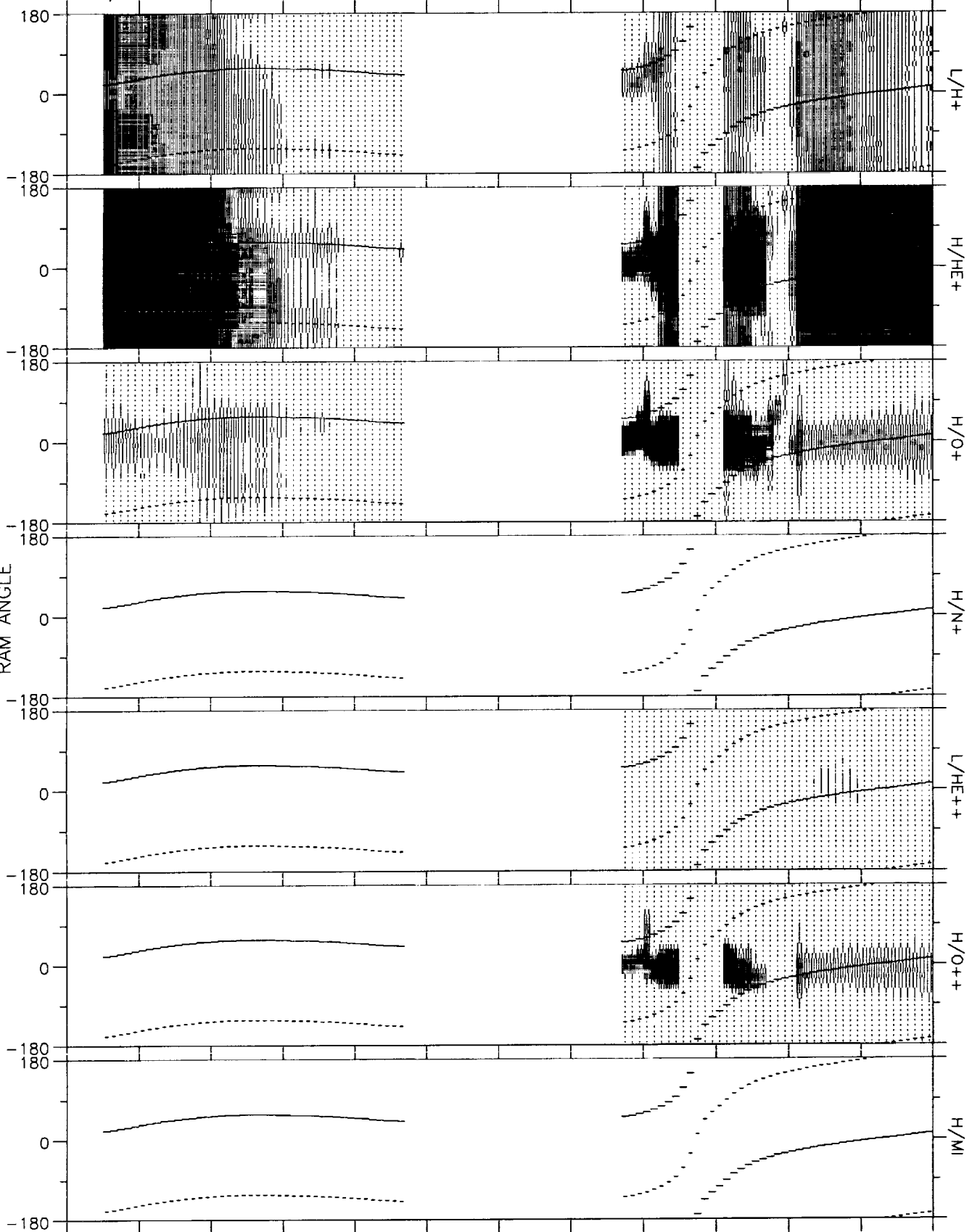
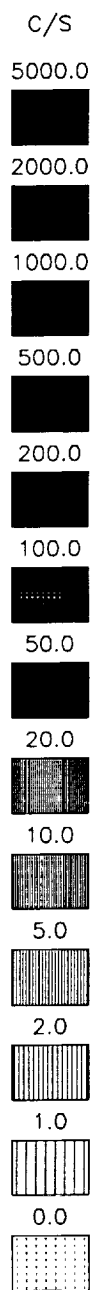
82/073 14-MAR 0030:00 - 0830:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0110	0150	0230	0310	0350	0000	0000	0000	0000	0000	0750	DEGS
RE	3.9	4.4	4.6	4.6	4.4	0.0	0.0	0.0	0.0	0.0	3.7	HHMM
L	4.0	5.2	6.8	9.2	14.0	0.0	0.0	0.0	0.0	0.0	3.7	RE
MLT	23.1	23.2	23.3	23.2	23.1	0.0	0.0	0.0	0.0	0.0	23.2	
MLAT	8.25	22.40	34.21	45.20	56.53	0.00	0.00	0.00	0.00	0.00	1.19	HRS
INVLAT	60.2	63.9	67.4	70.8	74.5	0.0	0.0	0.0	0.0	0.0	58.6	DEGS

DE RIMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Fri Sep 24 16:42:49 1993

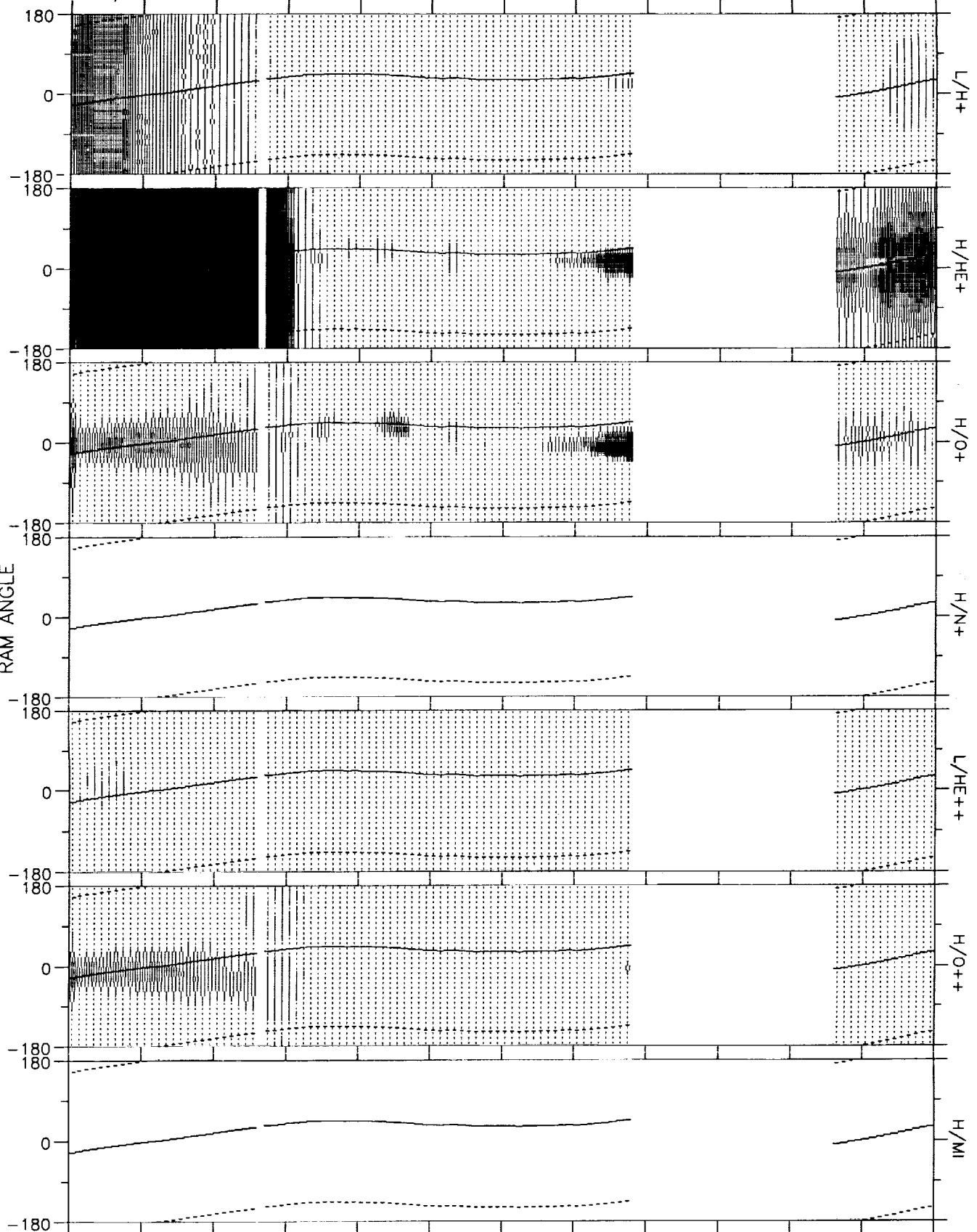
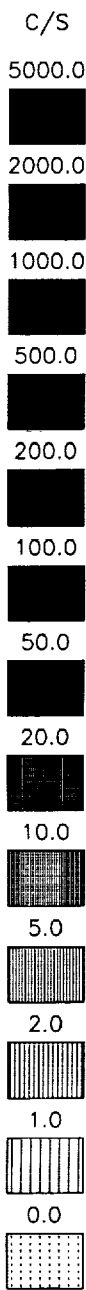
82/073 14-MAR 0715:00 - 1515:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0755	0835	0915	0955	0000	0000	0000	1235	1315	1355	1435	DEGS
RE	3.8	4.3	4.6	4.6	0.0	0.0	0.0	1.8	1.2	2.6	3.6	HHMM
L	3.8	4.6	5.4	6.3	0.0	0.0	0.0	13.3	7.0	4.5	3.9	RE
MLT	23.2	23.0	22.9	22.7	0.0	0.0	0.0	12.8	9.8	23.4	23.2	
MLAT	2.99	14.49	23.40	31.56	0.00	0.00	0.00	70.87	*****	*****	*****	HRS
INVLAT	59.1	62.2	64.6	66.5	0.0	0.0	0.0	74.1	67.8	62.0	59.4	DEGS

DE RMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Fri Sep 24 16:45:01 1993

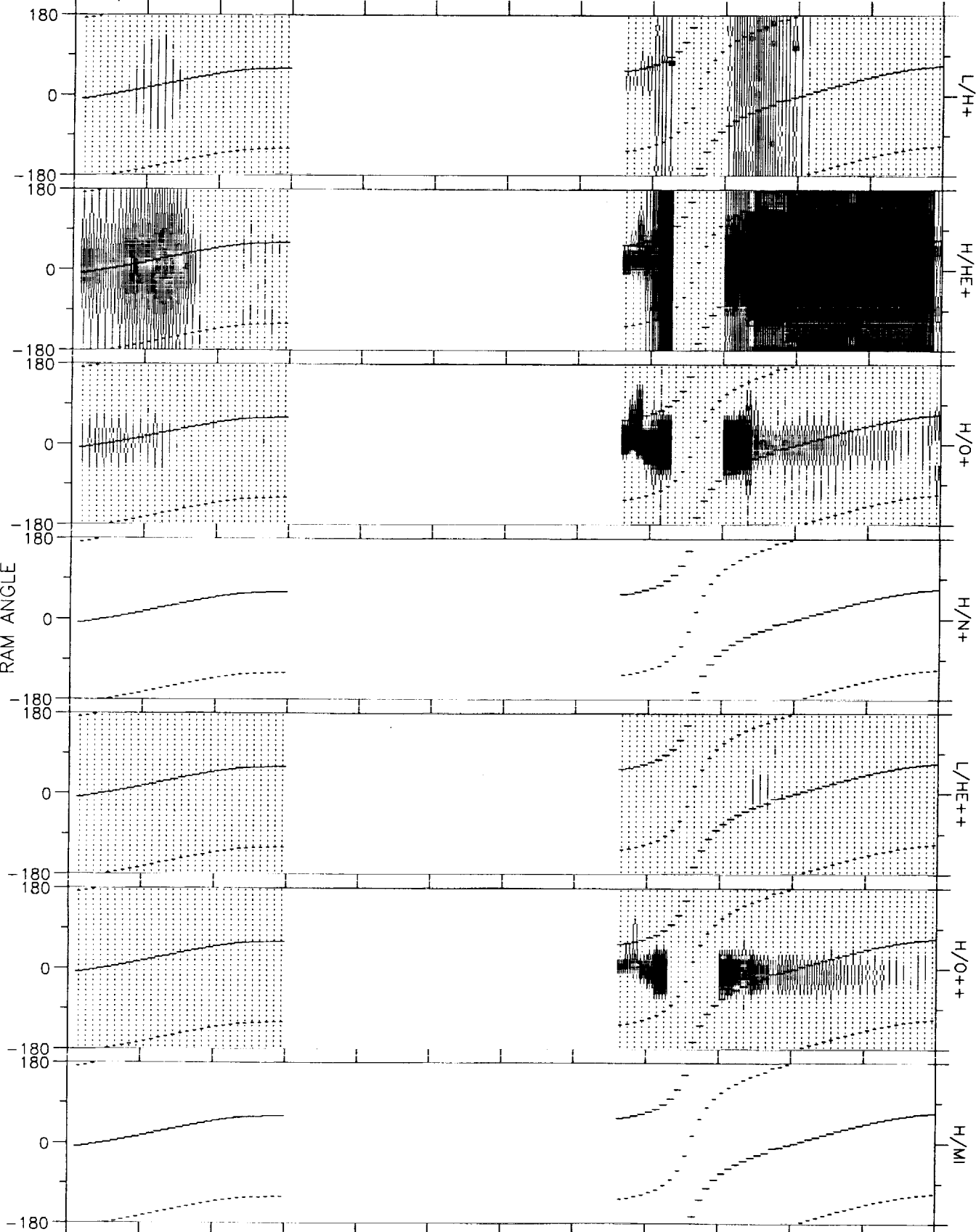
82/073 14-MAR 1400:00 - 2200:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1440	1520	1600	1640	1720	1800	1840	0000	0000	0000	2120	DEGS
RE	3.7	4.3	4.6	4.7	4.5	4.0	3.2	0.0	0.0	0.0	3.5	HHMM
L	3.9	4.2	4.7	5.3	6.2	8.0	15.6	0.0	0.0	0.0	3.7	RE
MLT	23.1	23.1	23.1	23.2	23.3	23.6	0.2	0.0	0.0	0.0	23.0	
MLAT	*****	-2.26	8.95	19.60	30.85	44.08	62.02	0.00	0.00	0.00	*****	HRS
INVLAT	59.5	60.9	62.5	64.2	66.2	69.3	75.3	0.0	0.0	0.0	58.6	DEGS

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Fri Sep 24 16:47:02 1993

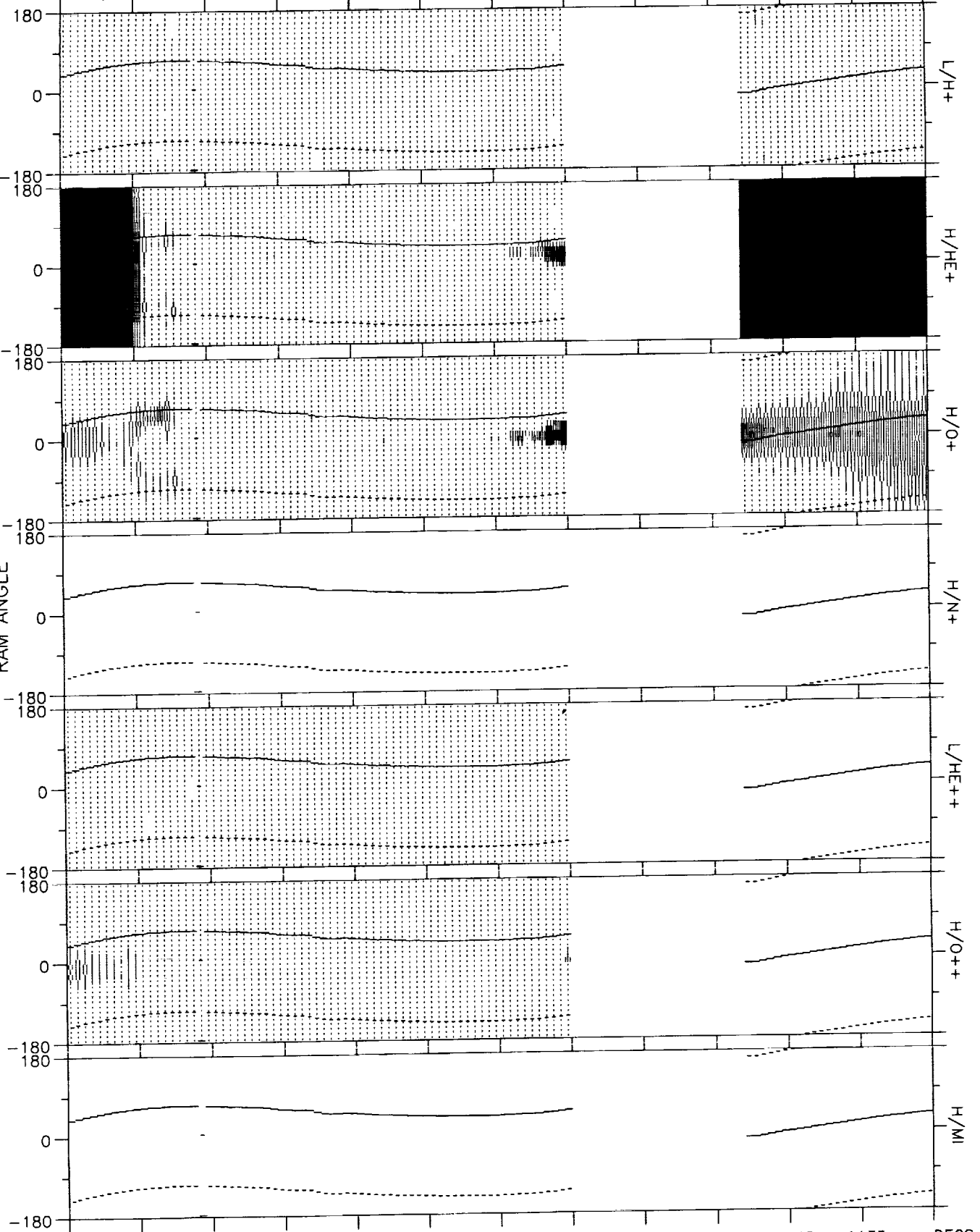
82/073 14-MAR 2100:00 - 0500:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	2140	2220	0000	0000	0000	0000	0000	0220	0300	0340	0420	DEGS
RE	3.8	4.4	0.0	0.0	0.0	0.0	0.0	1.7	1.4	2.7	3.6	HHMM
L	3.9	4.6	0.0	0.0	0.0	0.0	0.0	4.2	21.9	3.0	3.8	RE
MLT	23.1	23.2	0.0	0.0	0.0	0.0	0.0	10.7	22.3	23.1	23.1	HRS
MLAT	-1.98	12.96	0.00	0.00	0.00	0.00	0.00	48.32	*****	*****	5.46	DEGS
INVLAT	59.6	62.2	0.0	0.0	0.0	0.0	0.0	60.7	77.7	54.6	59.0	

DE RIMS SPIN SUMMARY
SPIN-RADIAL (V1.0)
Fri Sep 24 16:49:45 1993

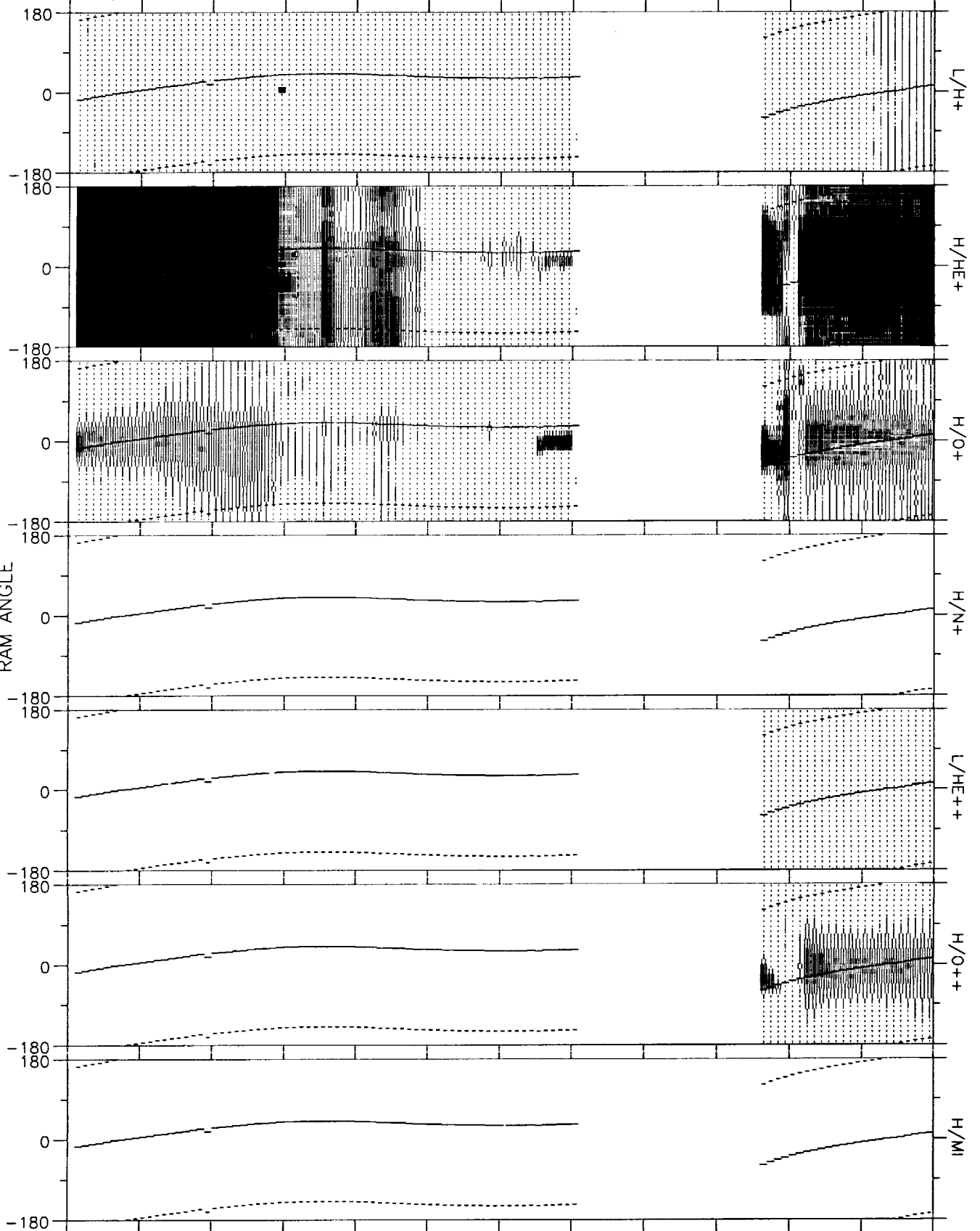
82/074 15-MAR 0415:00 - 1215:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0455	0535	0615	0655	0735	0815	0000	0000	0000	1055	1135	DEGS
RE	4.2	4.6	4.7	4.5	4.1	3.3	0.0	0.0	0.0	3.3	4.1	HHMM
L	4.7	6.0	7.5	9.7	13.6	28.9	0.0	0.0	0.0	3.6	4.0	RE
MLT	23.0	22.9	22.8	22.6	22.2	21.1	0.0	0.0	0.0	23.3	23.1	
MLAT	17.78	28.60	37.86	46.83	56.79	69.71	0.00	0.00	0.00	*****	-1.96	HRS
INVLAT	62.6	65.9	68.7	71.2	74.3	79.3	0.0	0.0	0.0	58.1	60.0	DEGS

DE RIMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Fri Sep 24 16:51:52 1993

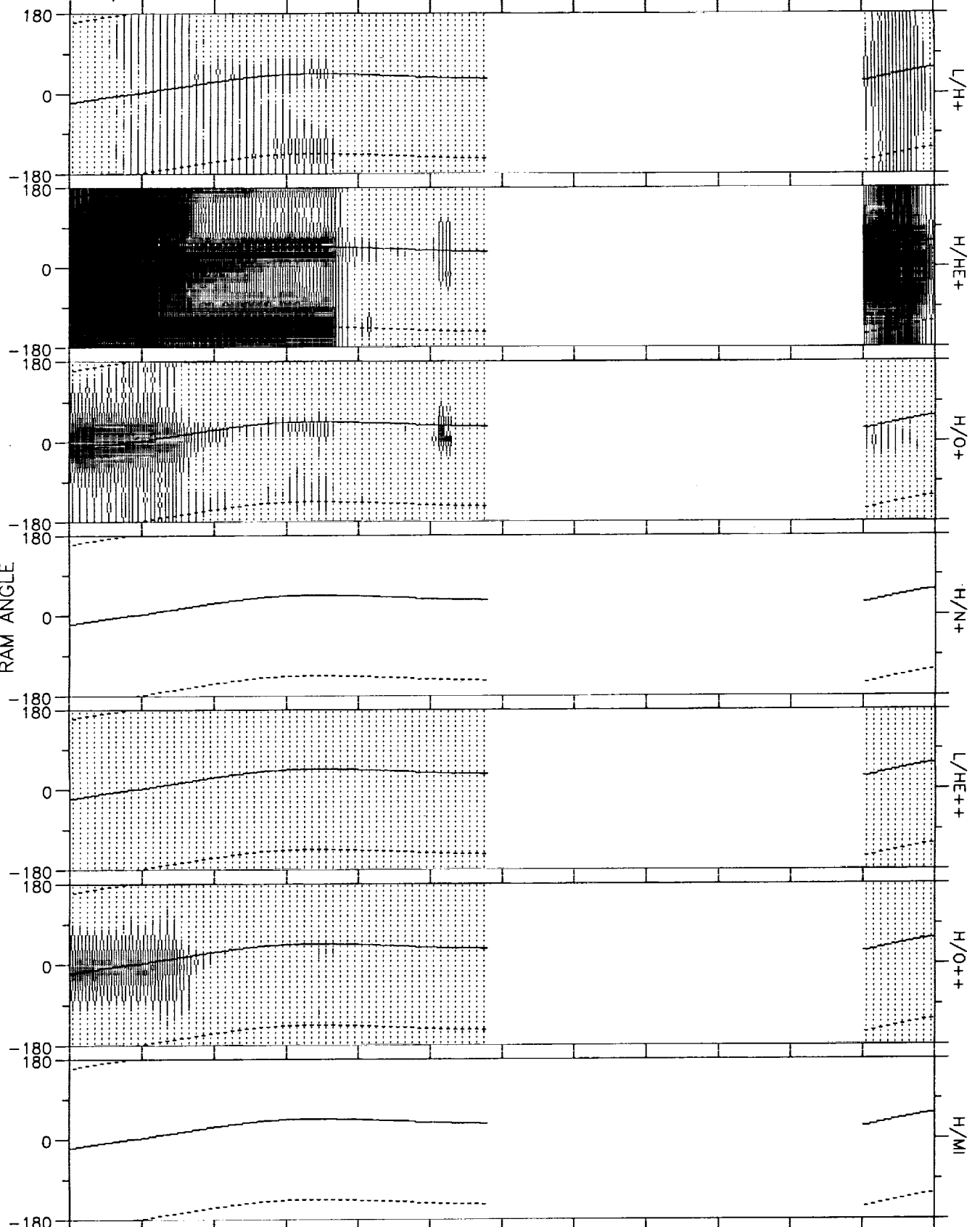
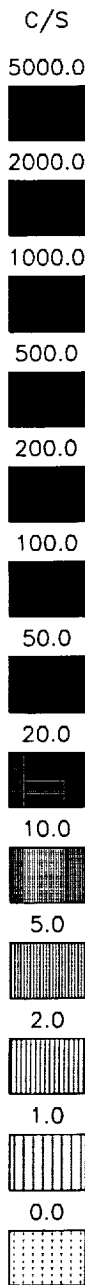
82/074 15-MAR 1030:00 - 1830:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1110	1150	1230	1310	1350	1430	1510	0000	0000	1710	1750	DEGS
RE	3.6	4.3	4.6	4.7	4.5	4.0	3.3	0.0	0.0	2.3	3.4	HHMM
L	3.7	4.2	4.7	5.3	6.1	7.5	11.9	0.0	0.0	5.6	3.8	RE
MLT	23.2	23.0	22.9	22.8	22.8	22.8	22.8	0.0	0.0	22.8	22.9	
MLAT	*****	2.20	11.89	20.90	30.48	42.12	56.62	0.00	0.00	*****	*****	HRS
INVLAT	58.8	60.8	62.6	64.3	66.0	68.6	73.2	0.0	0.0	64.9	59.3	DEGS

DE RIMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Fri Sep 24 16:54:05 1993

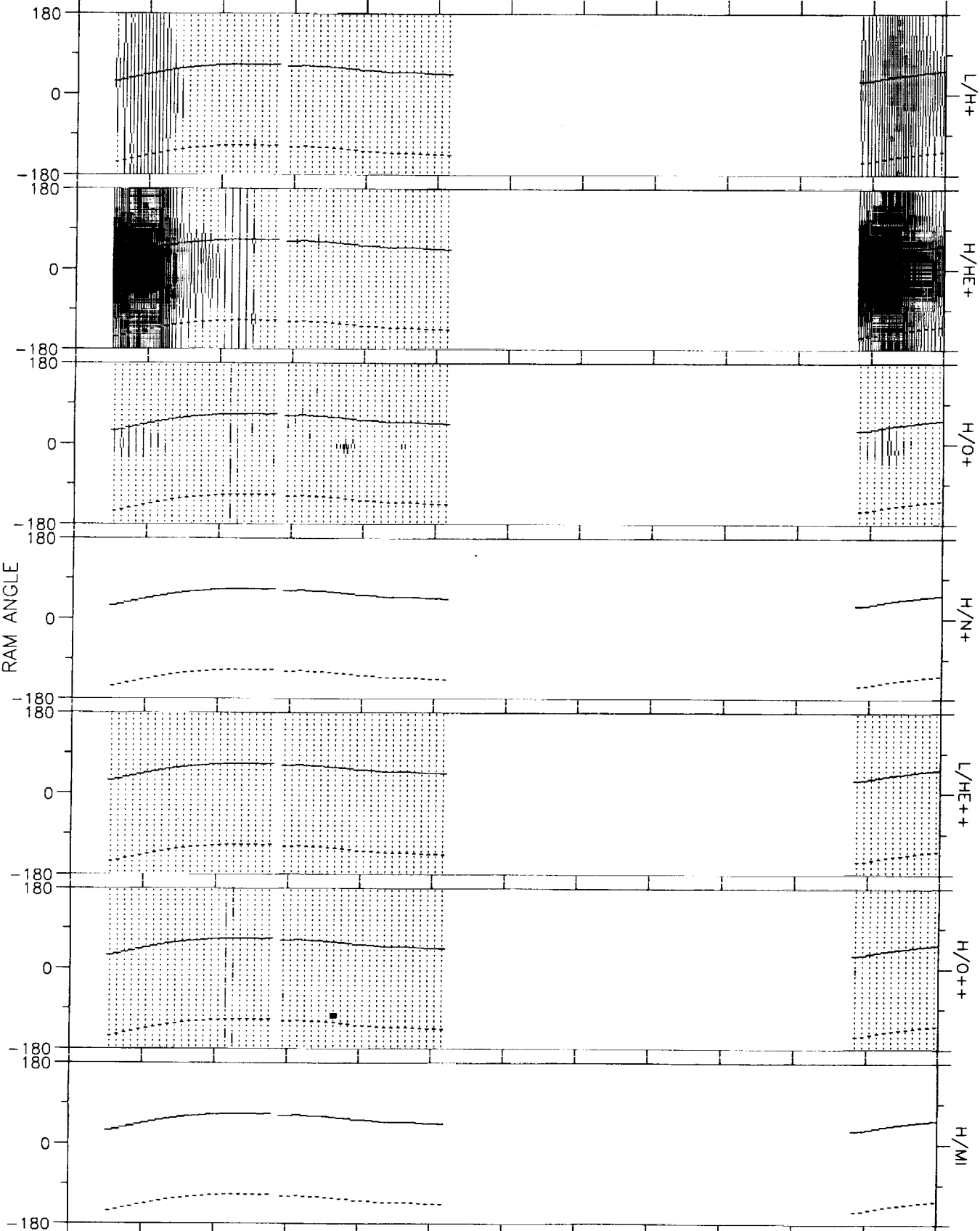
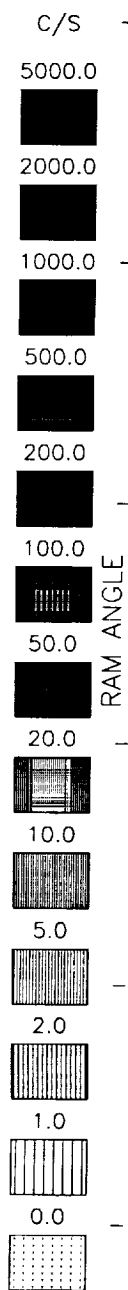
82/074 15-MAR 1730:00 - 0130:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1810	1850	1930	2010	2050	0000	0000	0000	0000	0000	0050	DEGS
RE	3.8	4.4	4.6	4.6	4.4	0.0	0.0	0.0	0.0	0.0	3.6	HHMM
L	3.9	4.3	5.0	5.8	7.3	0.0	0.0	0.0	0.0	0.0	3.7	RE
MLT	23.0	23.1	23.3	23.5	23.7	0.0	0.0	0.0	0.0	0.0	22.9	
MLAT	*****	2.72	15.14	27.01	39.45	0.00	0.00	0.00	0.00	0.00	1.14	HRS
INVLAT	59.7	61.4	63.3	65.5	68.2	0.0	0.0	0.0	0.0	0.0	58.6	DEGS

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Thu Sep 23 14:53:28 1993

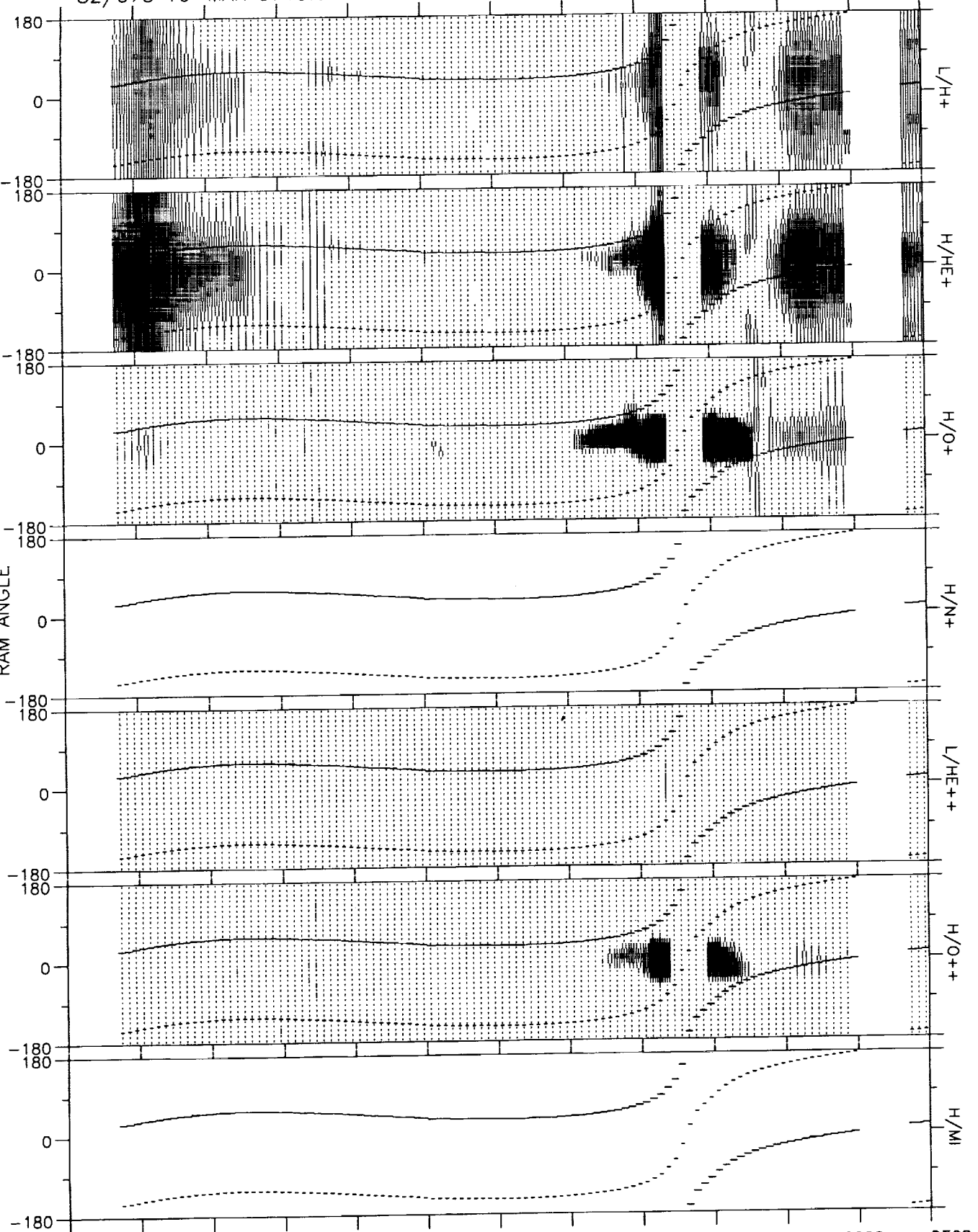
82/075 16-MAR 0030:00 - 0830:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0110	0150	0230	0310	0350	0000	0000	0000	0000	0000	0750	DEGS
RE	4.0	4.4	4.7	4.6	4.3	0.0	0.0	0.0	0.0	0.0	3.8	HHMM
L	4.1	5.3	6.9	9.4	14.4	0.0	0.0	0.0	0.0	0.0	3.8	RE
MLT	23.0	23.1	23.1	23.1	23.0	0.0	0.0	0.0	0.0	0.0	23.1	
MLAT	9.60	23.32	34.94	45.88	57.31	0.00	0.00	0.00	0.00	0.00	2.11	HRS
INVLAT	60.5	64.2	67.6	70.9	74.7	0.0	0.0	0.0	0.0	0.0	59.0	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Thu Sep 23 15:12:22 1993

82/075 16-MAR 0715:00 - 1515:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0755	0835	0915	0955	1035	1115	1155	1235	1315	1355	0000	DEGS
RE	3.9	4.4	4.6	4.6	4.4	3.8	2.9	1.7	1.4	2.7	0.0	HHMM
L	3.9	4.7	5.5	6.3	7.5	10.1	25.6	6.8	33.5	4.4	0.0	RE
MLT	23.1	22.9	22.7	22.6	22.4	22.1	21.3	12.1	7.8	23.2	0.0	HRS
MLAT	3.77	14.81	23.57	31.73	40.54	51.70	68.82	63.77	****	****	0.00	DEGS
INVLAT	59.4	62.4	64.7	66.6	68.6	71.6	78.6	67.4	80.0	61.4	0.0	

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Fri Sep 24 15:39:06 1993

82/075 16-MAR 1400:00 - 2200:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

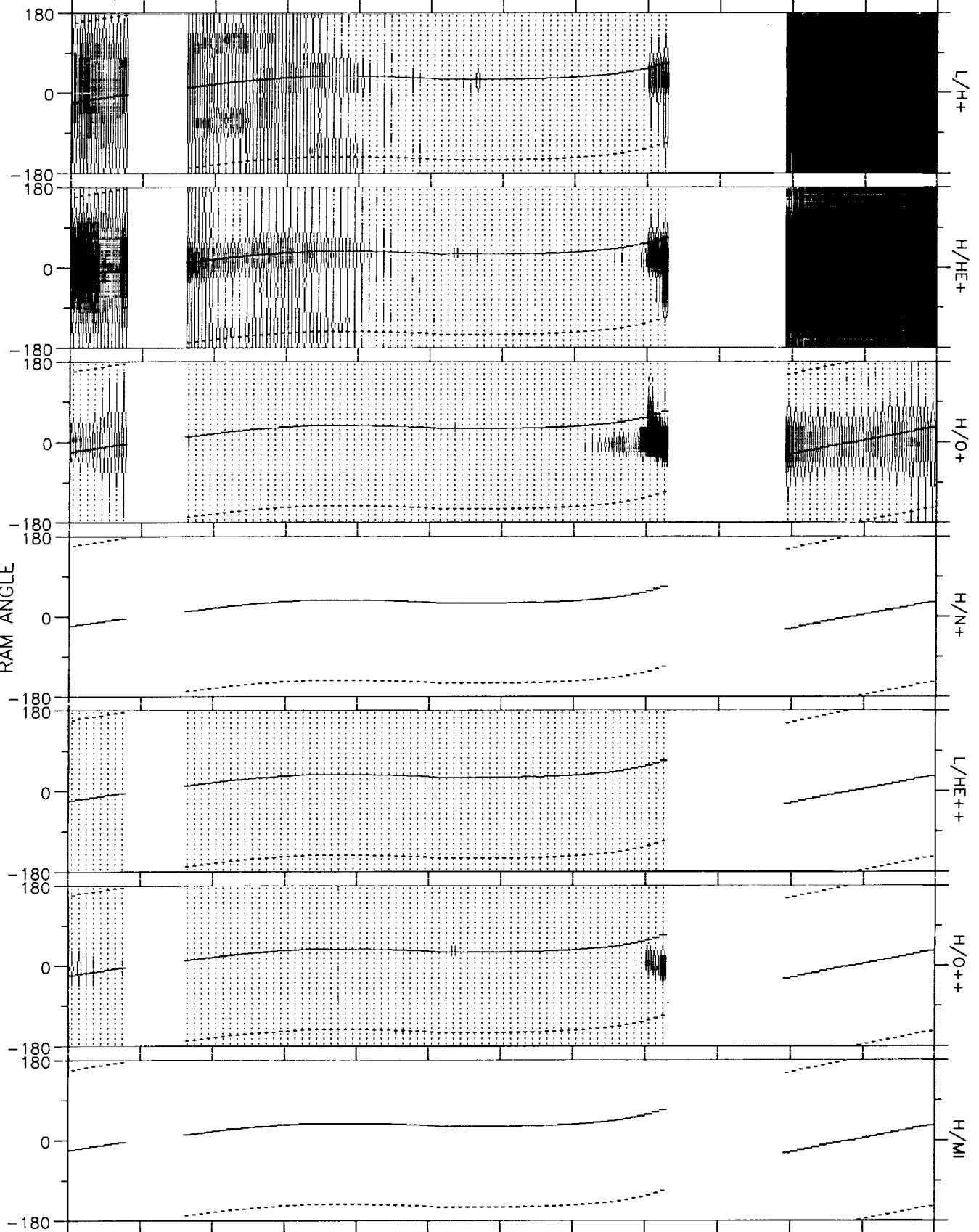
5.0

2.0

1.0

0.0

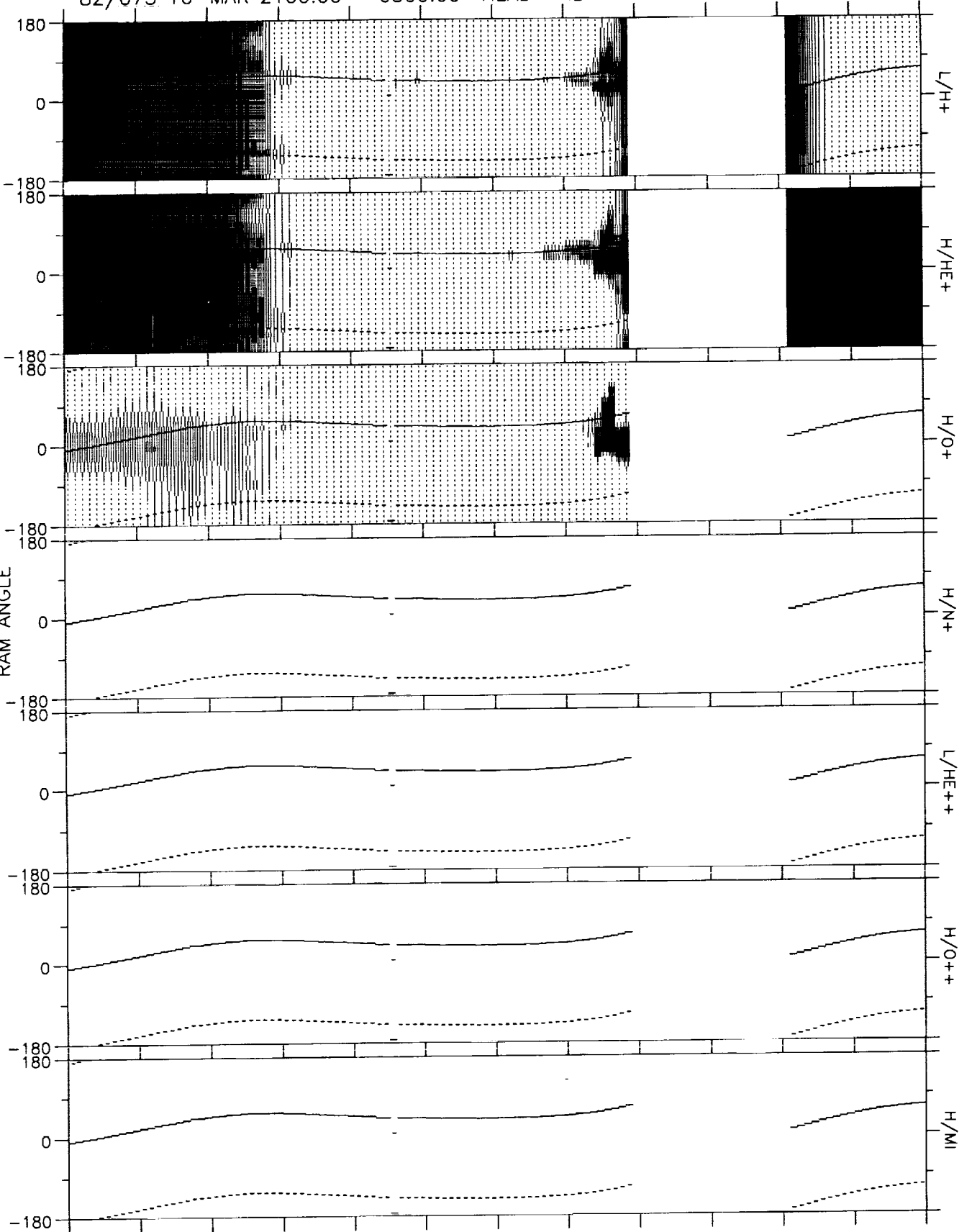
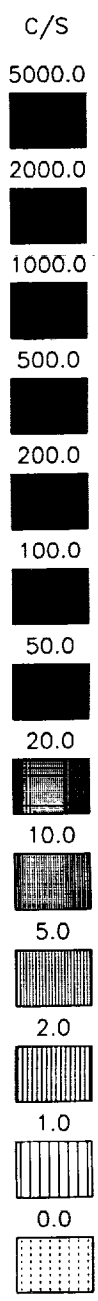
RAM ANGLE



TIME	0000	1520	1600	1640	1720	1800	1840	1920	0000	2040	2120	DEGS
RE	0.0	4.3	4.6	4.6	4.4	3.9	3.1	1.9	0.0	2.5	3.6	HHMM
L	0.0	4.3	4.7	5.3	6.2	8.2	17.6	20.4	0.0	4.0	3.7	RE
MLT	0.0	23.0	23.0	23.1	23.2	23.5	0.2	9.0	0.0	22.5	22.9	HRS
MLAT	0.00	-1.53	9.57	20.26	31.68	45.30	64.18	72.07	0.00	*****	-9.38	DEGS
INVLAT	0.0	61.0	62.6	64.3	66.3	69.5	76.2	77.2	0.0	60.1	58.9	

DE RMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Fri Sep 24 15:41:55 1993

82/075 16-MAR 2100:00 - 0500:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	2140	2220	2300	2340	0020	0100	0140	0000	0000	0000	0420	DEGS
RE	3.9	4.4	4.7	4.6	4.3	3.7	2.8	0.0	0.0	0.0	3.7	HHMM
L	4.0	4.7	5.7	7.3	10.4	20.4	-0.0	0.0	0.0	0.0	3.8	RE
MLT	23.0	23.1	23.3	23.4	23.6	0.0	4.6	0.0	0.0	0.0	23.0	HRS
MLAT	-0.50	14.05	26.62	38.68	51.33	66.23	84.18	0.00	0.00	0.00	6.67	DEGS
INVLAT	59.9	62.5	65.2	68.2	71.9	77.2	-0.0	0.0	0.0	0.0	59.3	

DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Fri Sep 24 15:44:11 1993

82/076 17-MAR 0415:00 - 1215:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

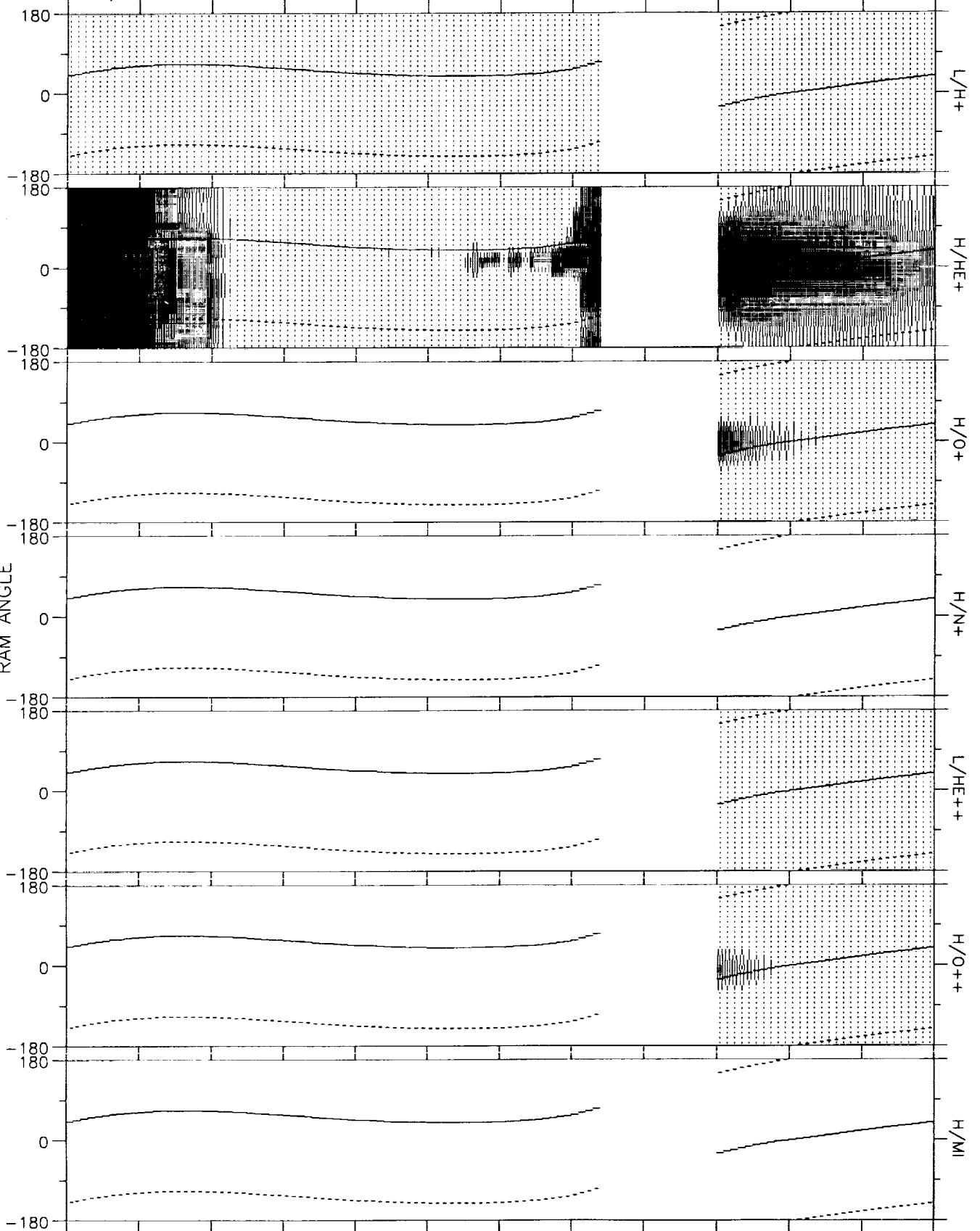
5.0

2.0

1.0

0.0

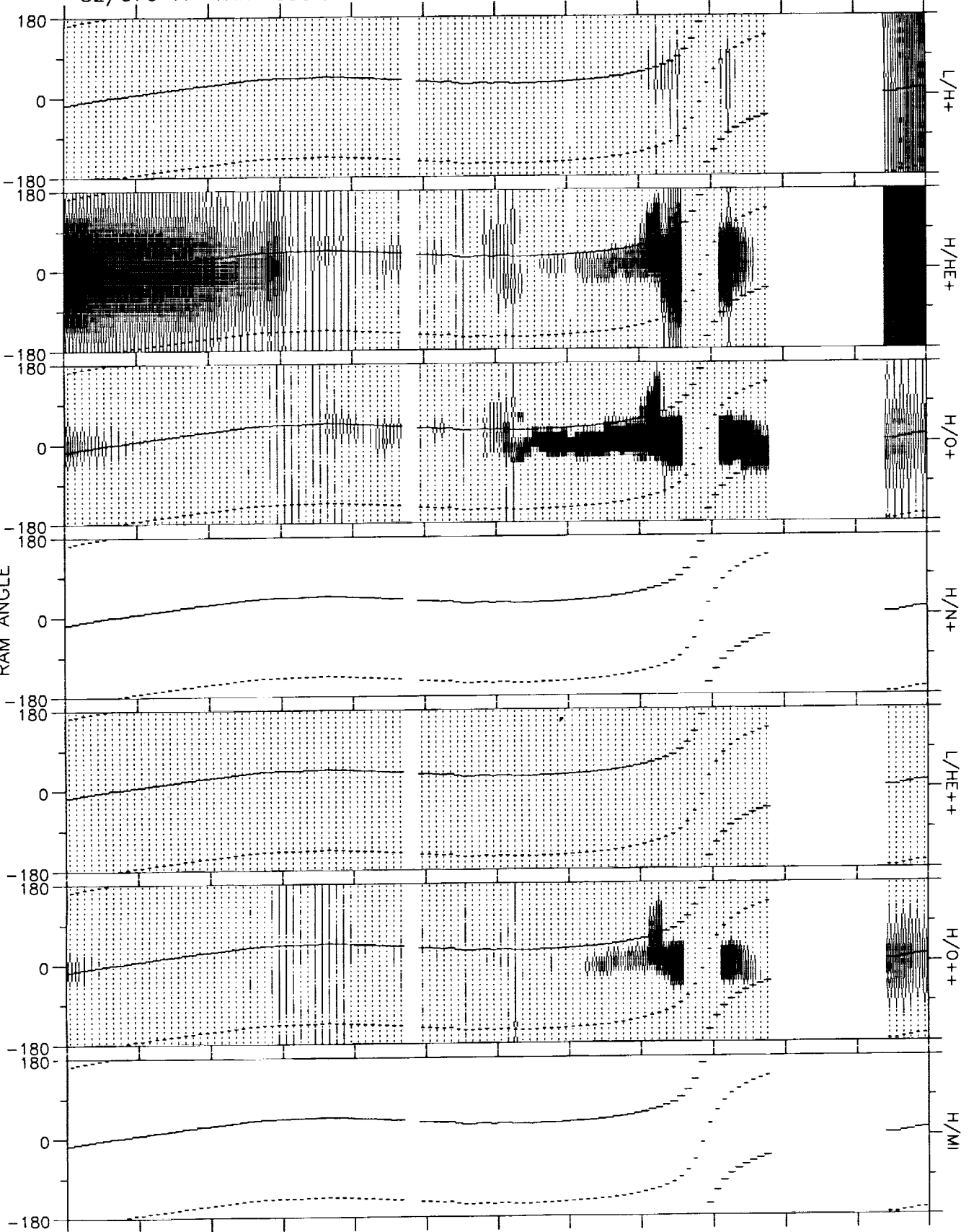
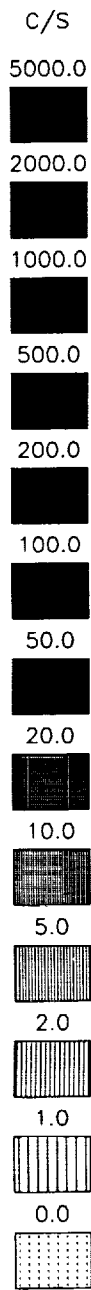
RAM ANGLE



TIME	0455	0535	0615	0655	0735	0815	0855	0000	1015	1055	1135	DEGS
RE	4.3	4.6	4.7	4.5	4.0	3.2	2.1	0.0	2.3	3.4	4.1	HHMM
L	4.8	6.0	7.6	9.6	13.8	31.7	22.5	0.0	4.1	3.7	4.1	RE
MLT	22.9	22.8	22.6	22.4	22.0	20.8	13.5	0.0	23.6	23.1	22.9	
MLAT	18.49	29.01	38.15	47.16	57.36	70.86	71.58	0.00	*****	*****	-1.37	HRS
INVLAT	62.8	66.0	68.7	71.2	74.4	79.8	77.8	0.0	60.5	58.5	60.3	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIALALL (V1.0)
Fri Sep 24 15:49:39 1993

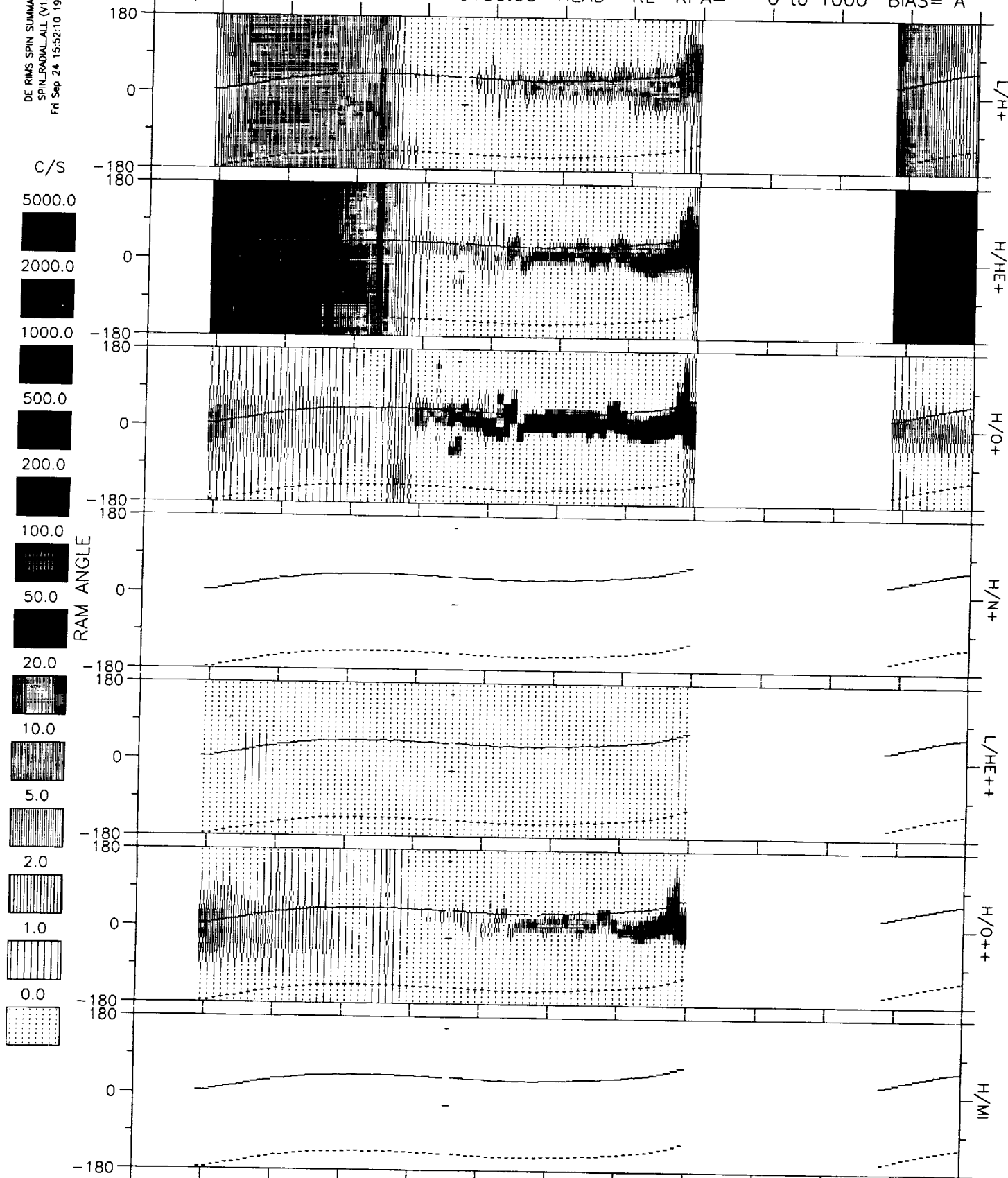
82/076 17-MAR 1030:00 - 1830:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1110	1150	1230	1310	1350	1430	1510	1550	1630	0000	0000	DEGS
RE	3.7	4.3	4.6	4.7	4.4	3.9	3.2	1.9	1.2	0.0	0.0	HHMM
L	3.8	4.3	4.8	5.3	6.1	7.6	12.9	90.6	3.0	0.0	0.0	RE
MLT	23.0	22.9	22.8	22.7	22.7	22.7	22.8	10.5	11.2	0.0	0.0	
MLAT	-9.24	2.64	12.19	21.22	31.00	43.03	58.54	83.15	*****	0.00	0.00	HRS
INVLAT	59.1	61.0	62.7	64.3	66.1	68.8	73.9	84.0	54.3	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL.ALL (V1.0)
Fri Sep 24 15:52:10 1993

82/076 17-MAR 1730:00 - 0130:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1810	1850	1930	2010	2050	2130	2210	0000	0000	0000	0050	DEGS
RE	3.9	4.4	4.6	4.6	4.4	3.8	2.9	0.0	0.0	0.0	3.7	HHMM
L	4.0	4.4	5.0	5.9	7.4	11.3	40.2	0.0	0.0	0.0	3.8	RE
MLT	22.9	23.0	23.2	23.4	23.6	0.1	2.0	0.0	0.0	0.0	22.9	
MLAT	*****	3.71	16.02	27.91	40.51	55.27	74.40	0.00	0.00	0.00	2.71	HRS
INVLAT	59.9	61.6	63.5	65.7	68.4	72.7	80.9	0.0	0.0	0.0	59.1	DEGS

DE RMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Fri Sep 24 16:01:19 1993

82/077 18-MAR 0015:00 - 0815:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

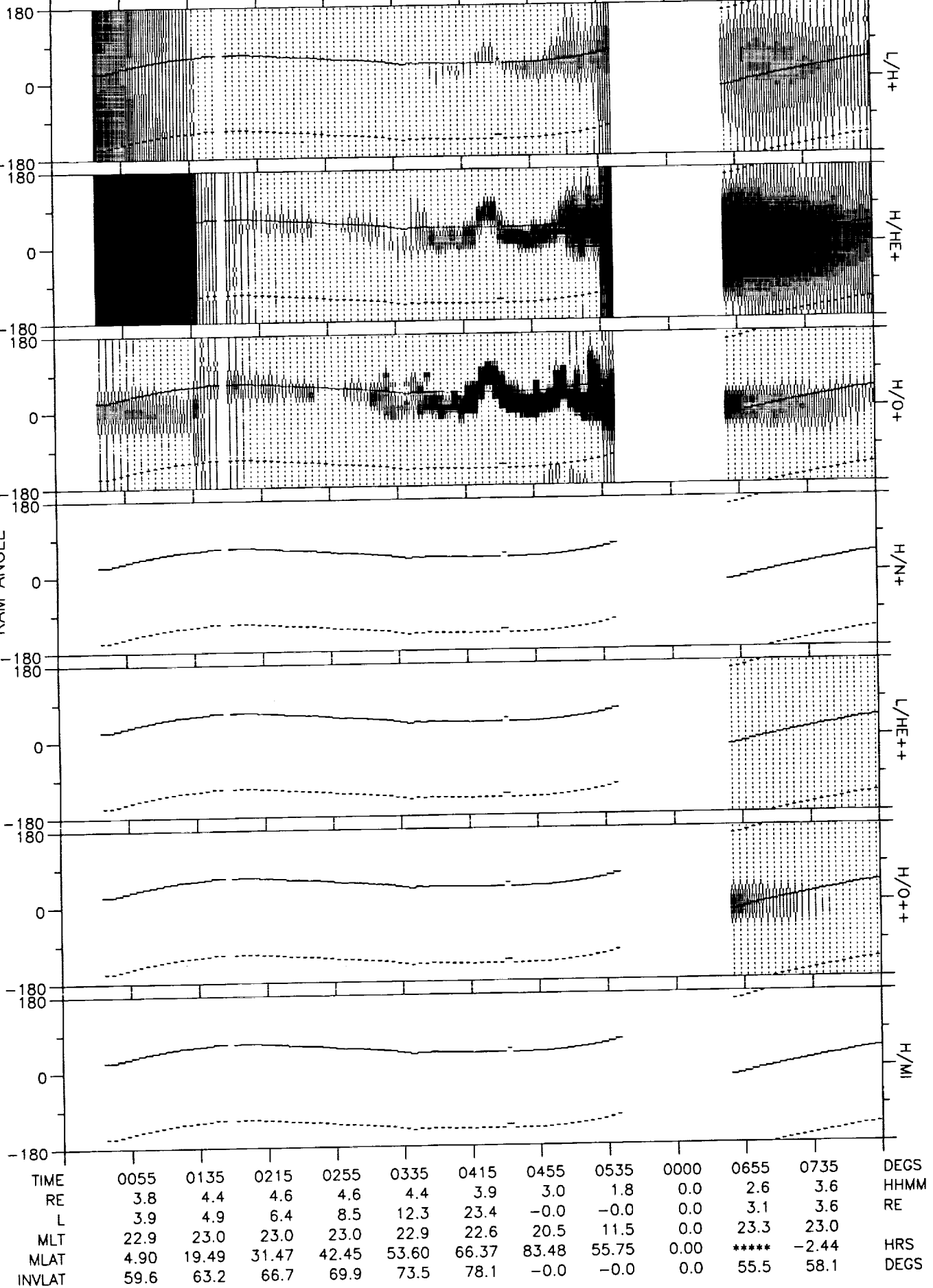
5.0

2.0

1.0

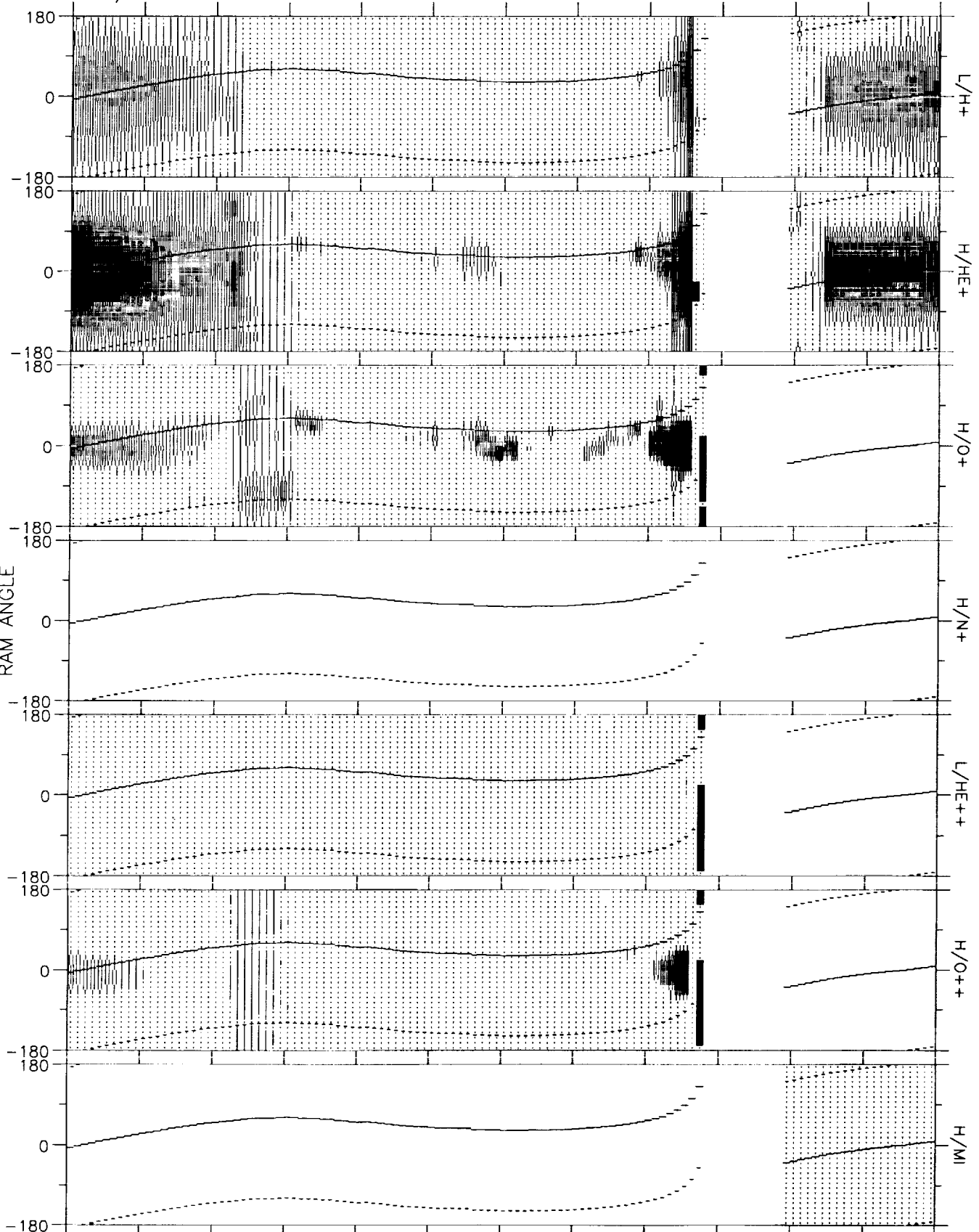
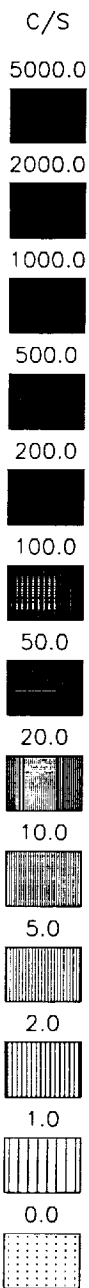
0.0

RAM ANGLE



DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Fri Sep 24 16:04:00 1993

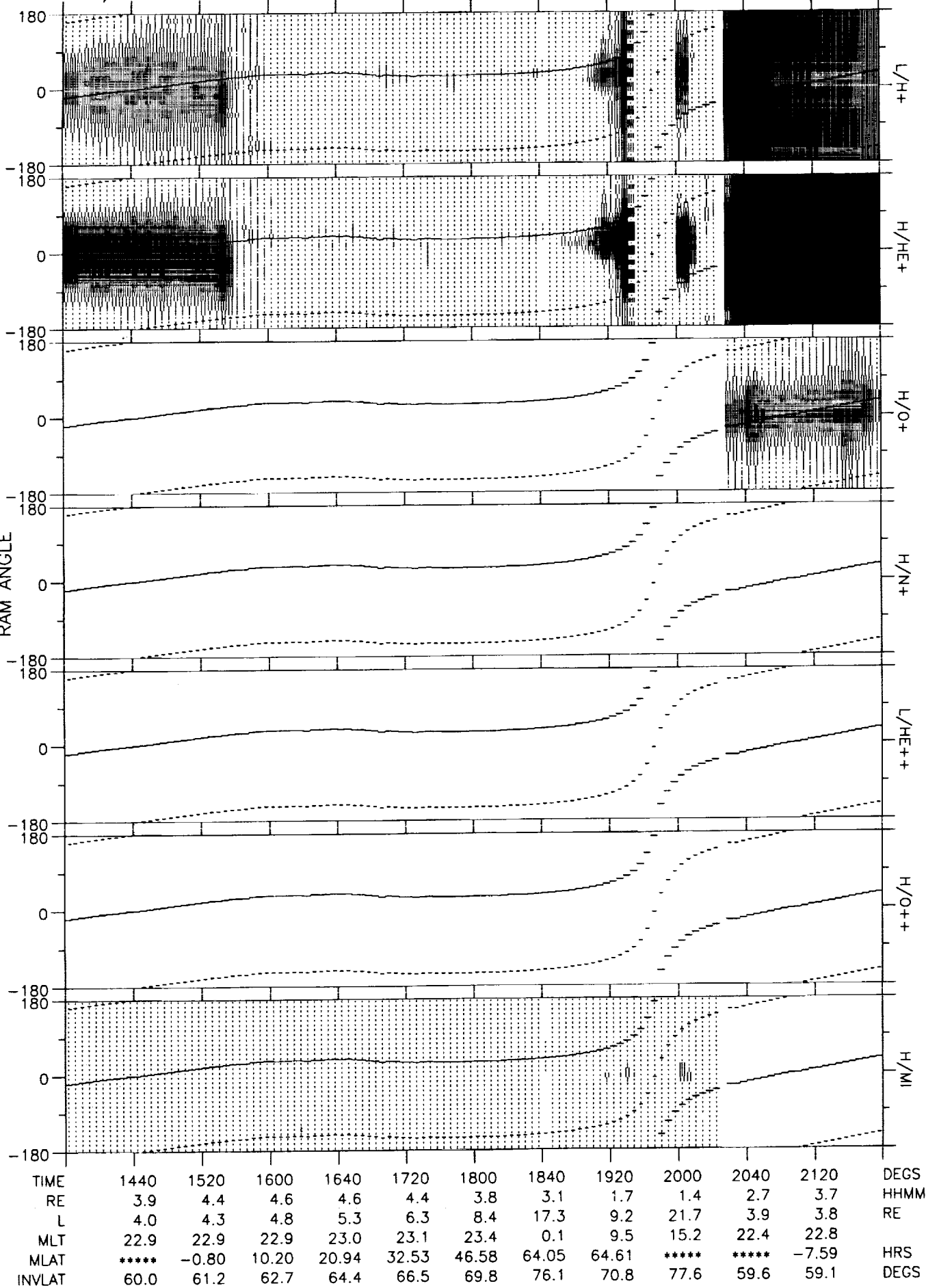
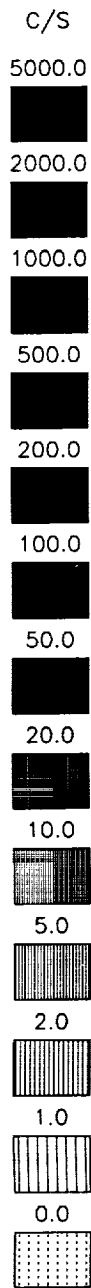
82/077 18-MAR 0700:00 - 1500:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0740	0820	0900	0940	1020	1100	1140	1220	0000	1340	1420	DEGS
RE	3.7	4.3	4.6	4.7	4.5	4.0	3.2	2.0	0.0	2.4	3.5	HHMM
L	3.7	4.4	5.2	6.0	7.0	8.9	16.4	41.9	0.0	5.4	3.9	RE
MLT	23.0	22.8	22.7	22.5	22.3	22.1	21.5	14.2	0.0	23.2	22.9	
MLAT	-0.53	11.52	20.66	28.84	37.37	47.73	62.83	78.75	0.00	*****	*****	HRS
INVLAT	58.6	61.6	64.0	65.9	67.8	70.4	75.7	81.1	0.0	64.4	59.7	DEGS

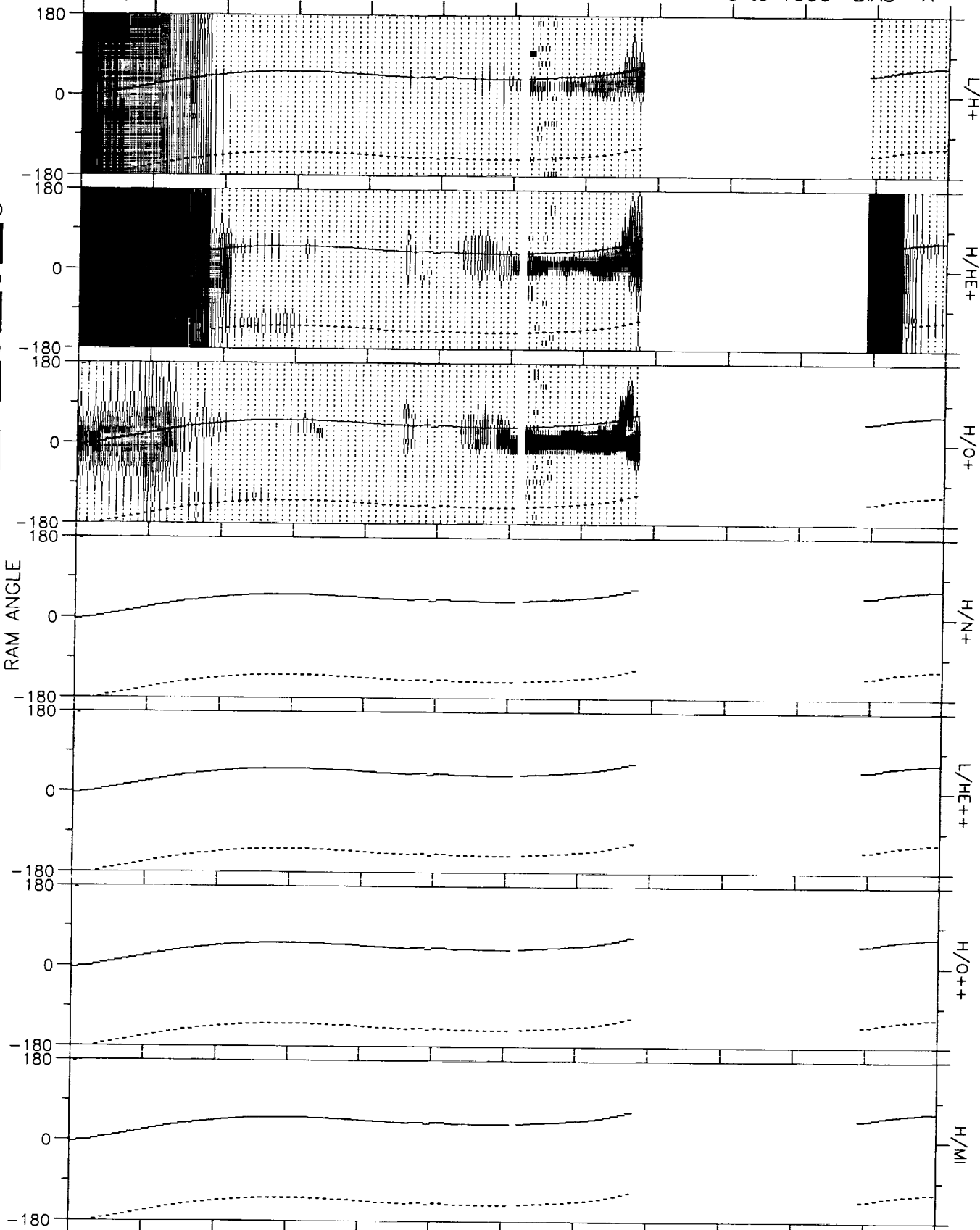
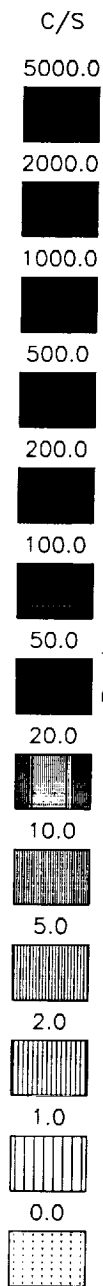
DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Fri Sep 24 16:06:19 1993

82/077 18-MAR 1400:00 - 2200:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Fri Sep 24 16:08:54 1993

82/077 18-MAR 2100:00 - 0500:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	2140	2220	2300	2340	0020	0100	0140	0000	0000	0000	0420	DEGS
RE	4.0	4.5	4.7	4.6	4.3	3.7	2.7	0.0	0.0	0.0	3.8	HHMM
L	4.0	4.8	5.8	7.4	10.7	20.3	100.0	0.0	0.0	0.0	3.9	RE
MLT	22.9	23.0	23.2	23.4	23.5	23.9	6.5	0.0	0.0	0.0	22.8	
MLAT	0.93	15.14	27.58	39.64	52.46	66.26	84.03	0.00	0.00	0.00	7.83	HRS
INVLAT	60.2	62.7	65.5	68.5	72.2	77.2	86.6	0.0	0.0	0.0	59.8	DEGS

DE RMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Fri Sep 24 16:14:05 1993

82/0/8 19-MAR 0415:00 - 1215:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

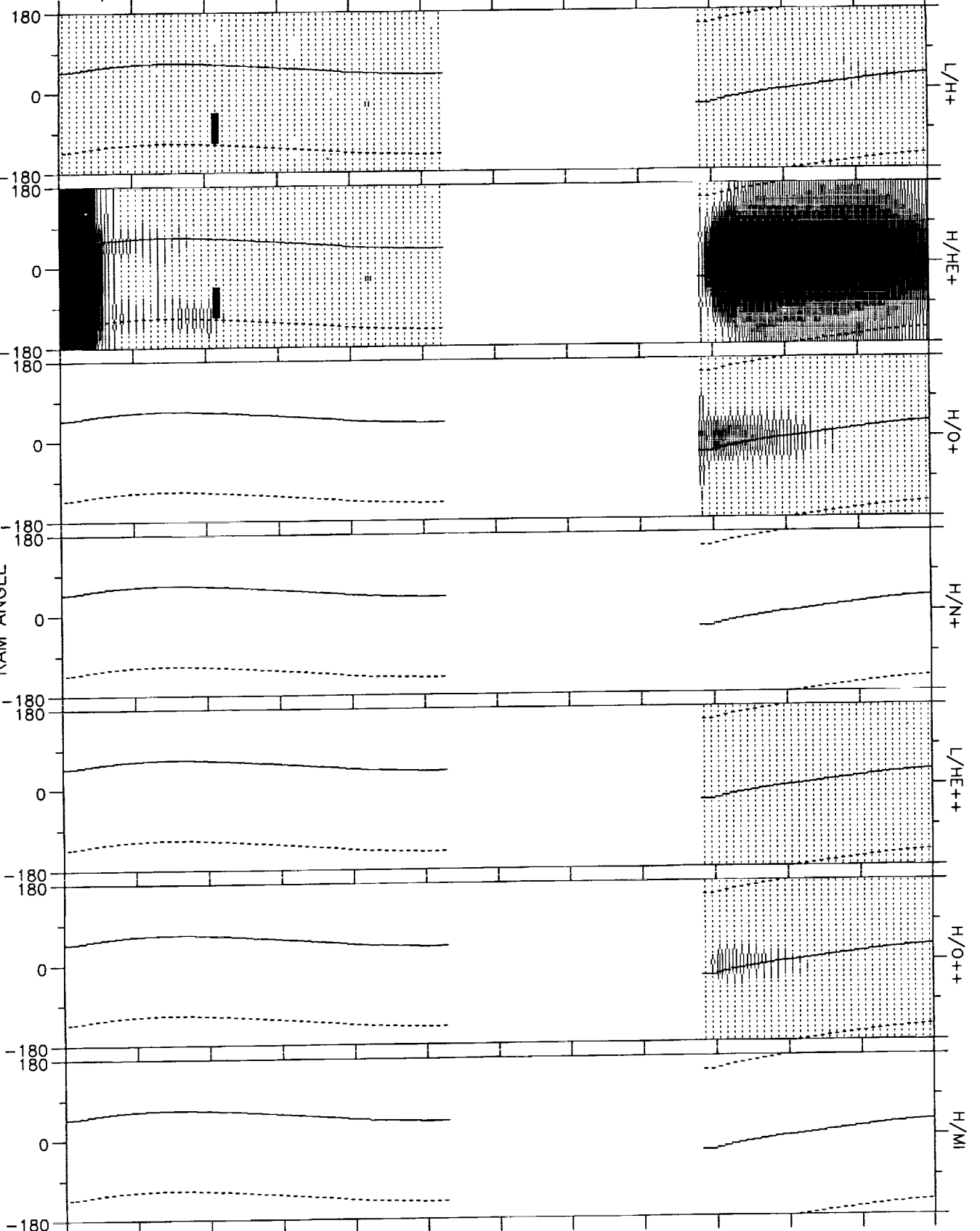
5.0

2.0

1.0

0.0

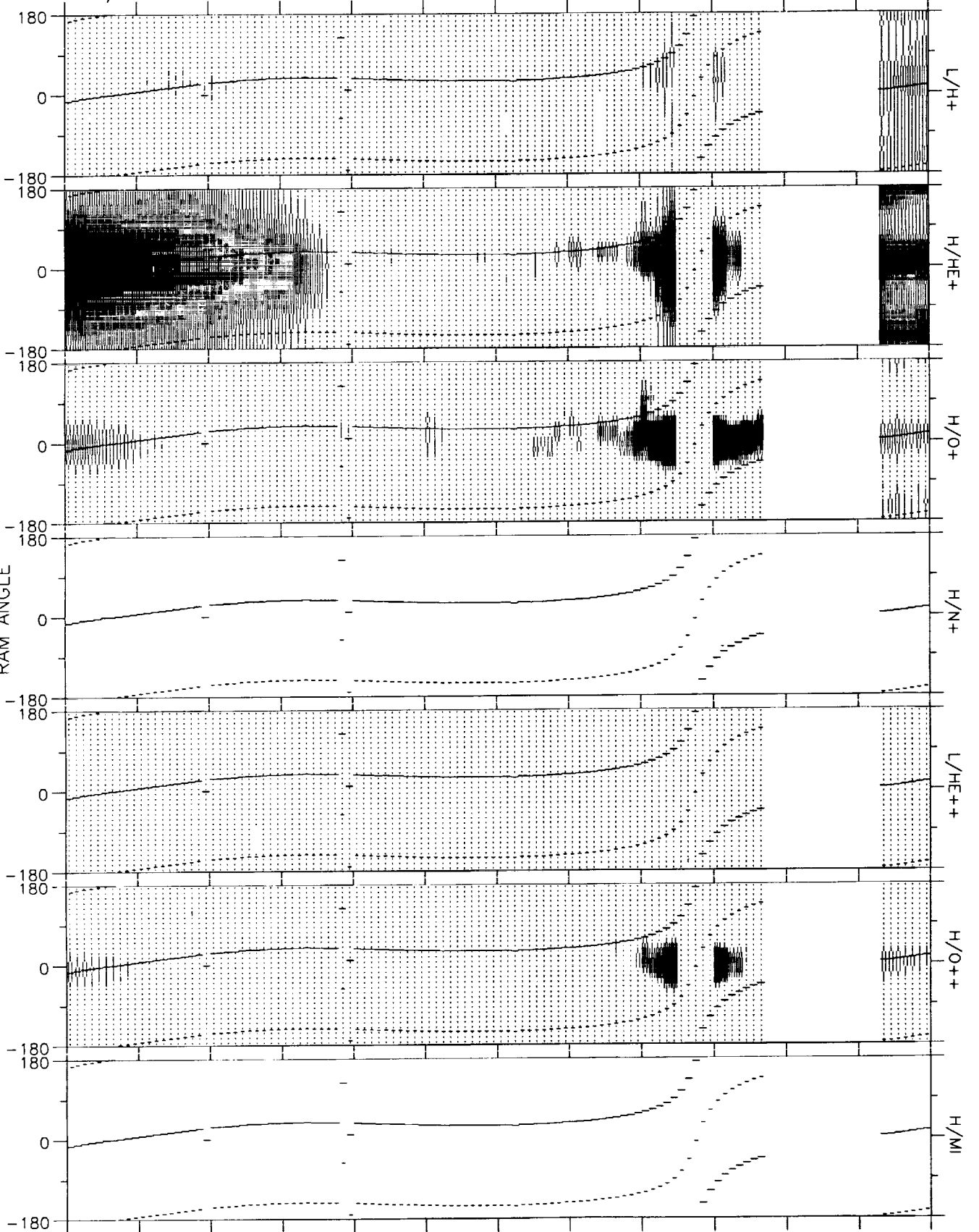
RAM ANGLE



TIME	0455	0535	0615	0655	0735	0000	0000	0000	1015	1055	1135	DEGS
RE	4.3	4.6	4.7	4.4	3.9	0.0	0.0	0.0	2.5	3.5	4.2	HHMM
L	4.9	6.1	7.6	9.7	14.0	0.0	0.0	0.0	4.0	3.7	4.1	RE
MLT	22.8	22.7	22.5	22.3	21.8	0.0	0.0	0.0	23.4	23.0	22.8	HRS
MLAT	19.14	29.42	38.46	47.50	57.95	0.00	0.00	0.00	*****	*****	-0.96	DEGS
INVLAT	63.1	66.2	68.7	71.3	74.5	0.0	0.0	0.0	59.9	58.8	60.5	

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Fri Sep 24 16:15:38 1993

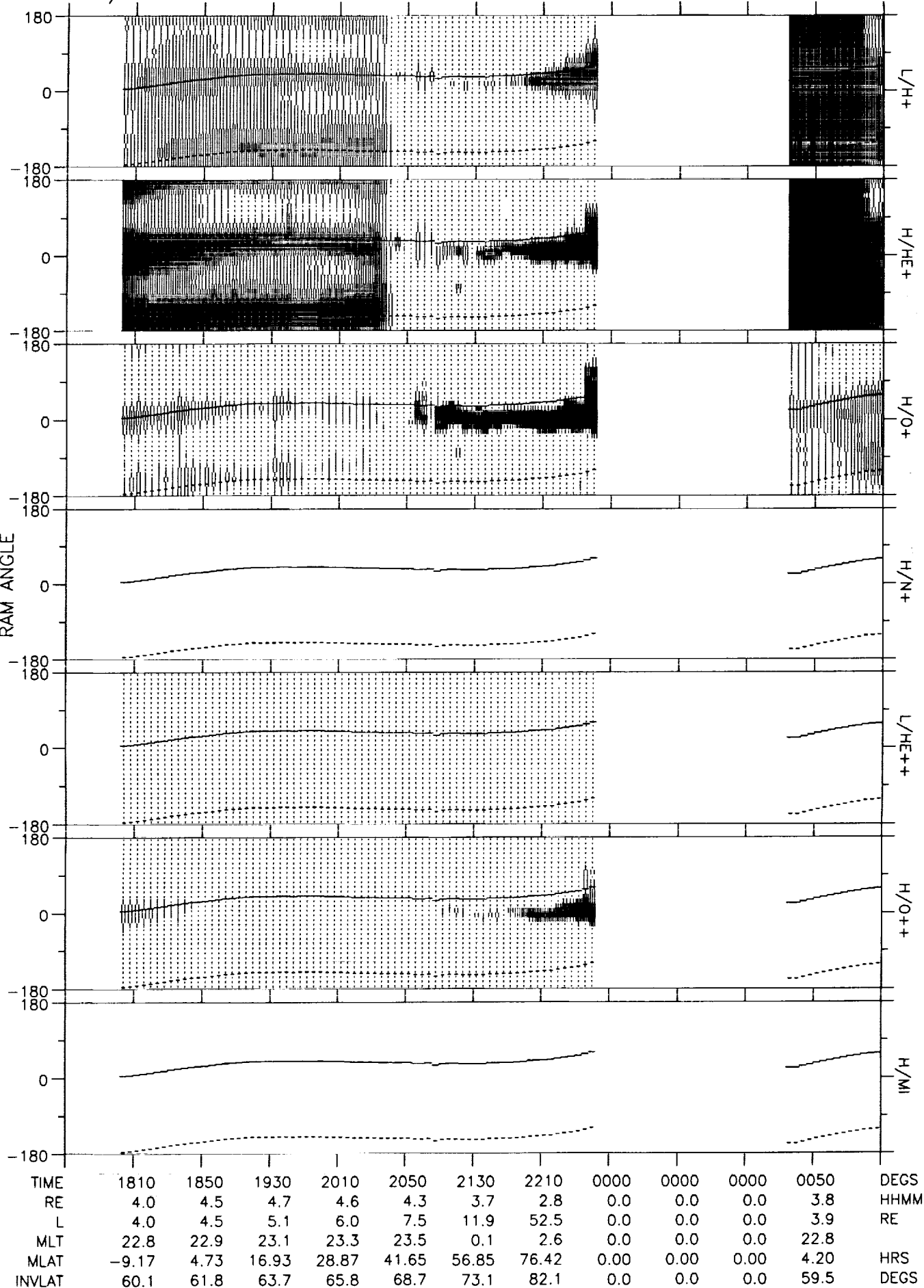
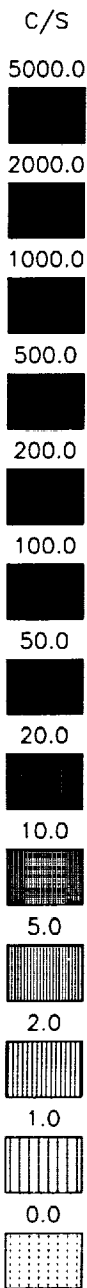
82/078 19-MAR 1030:00 - 1830:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1110	1150	1230	1310	1350	1430	1510	1550	1630	0000	0000	DEGS
RE	3.8	4.4	4.6	4.6	4.4	3.9	3.0	1.8	1.3	0.0	0.0	HHMM
L	3.9	4.3	4.8	5.3	6.1	7.8	16.1	25.5	9.4	0.0	0.0	RE
MLT	22.9	22.7	22.6	22.6	22.6	22.6	22.7	10.5	11.4	0.0	0.0	
MLAT	-8.37	3.09	12.51	21.60	31.57	44.06	62.79	75.76	****	0.00	0.00	HRS
INVLAT	59.4	61.2	62.8	64.4	66.1	69.0	75.6	78.6	70.9	0.0	0.0	DEGS

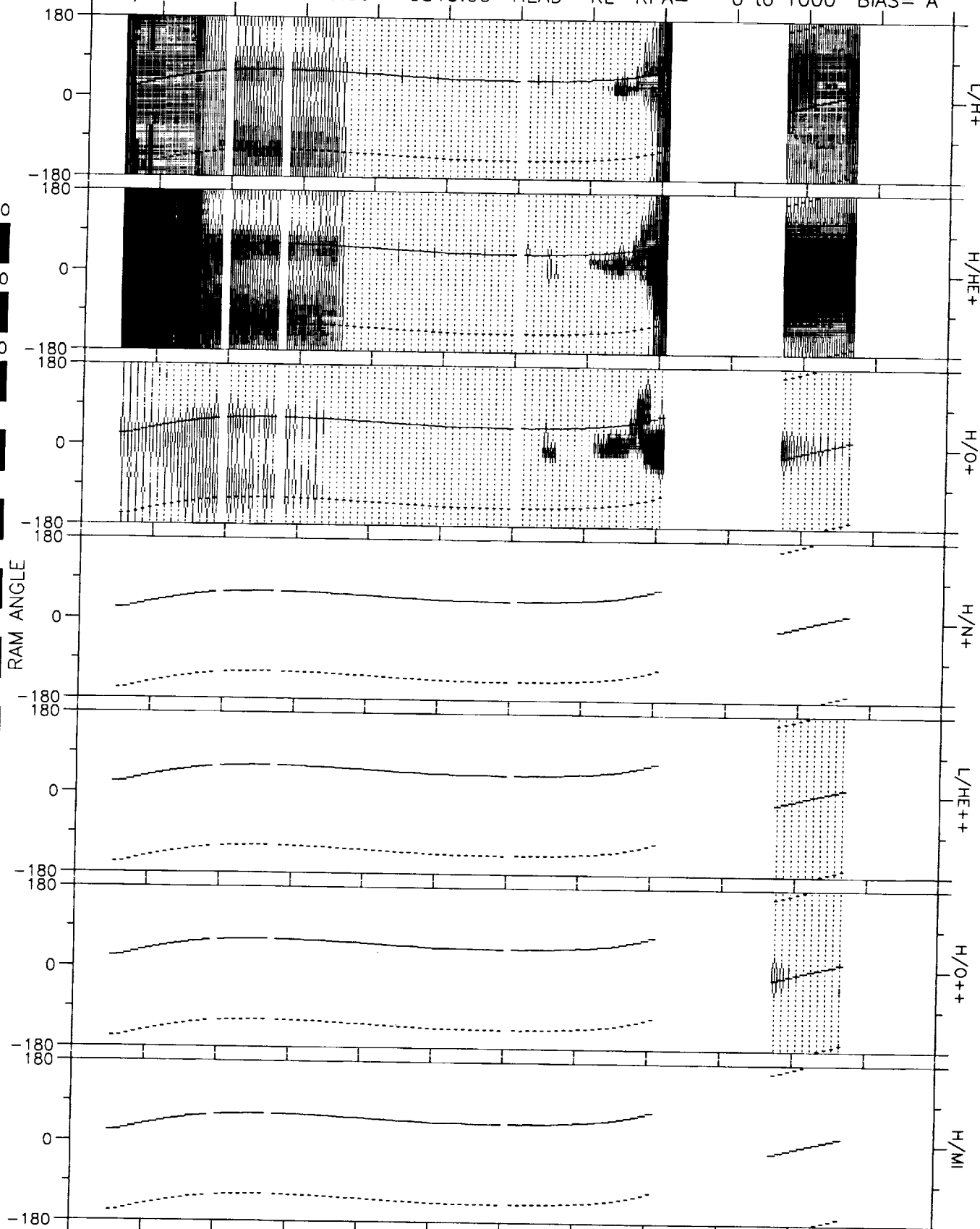
DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Fri Sep 24 16:17:51 1993

82/078 19-MAR 1730:00 - 0130:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Fri Sep 24 16:19:54 1993

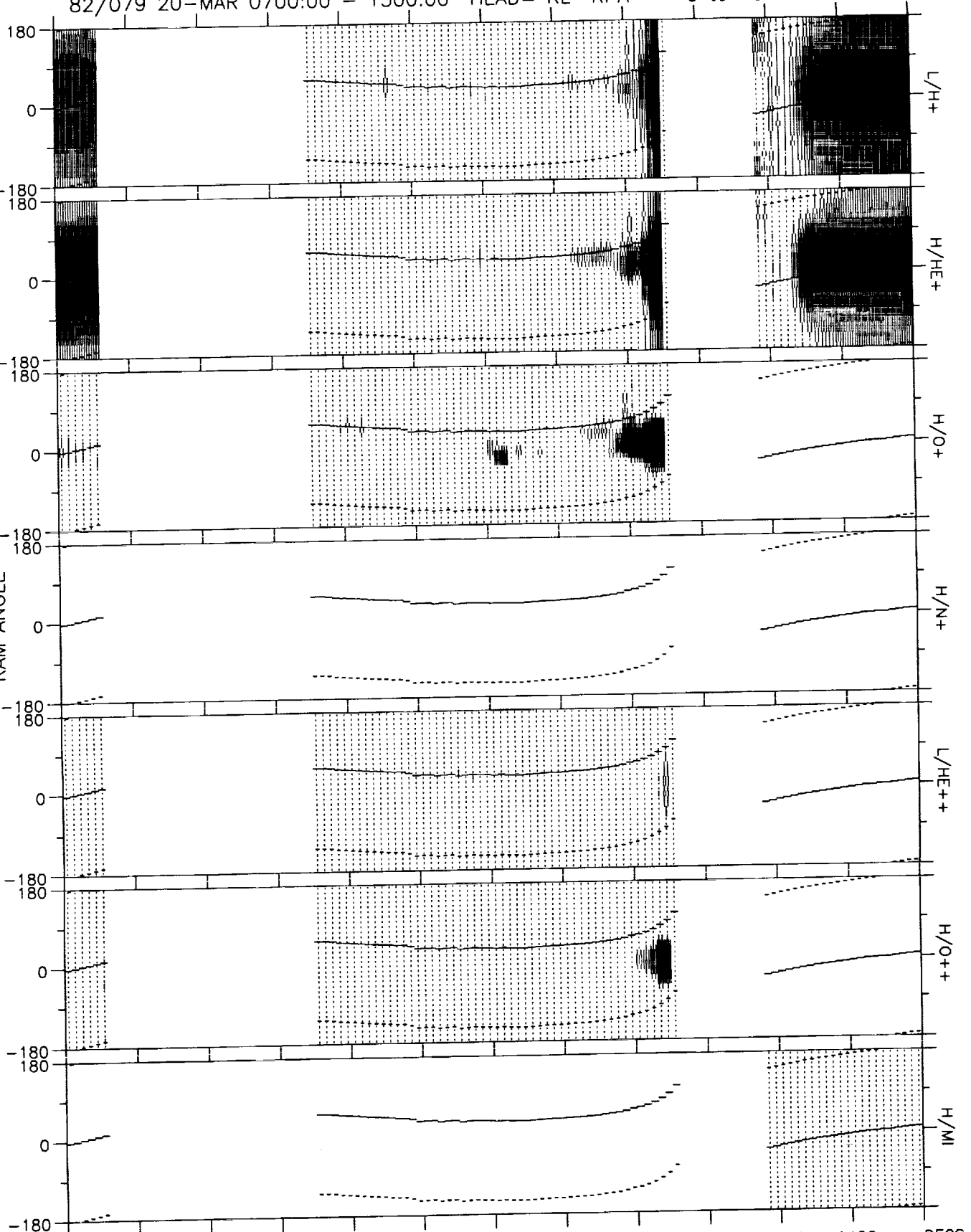
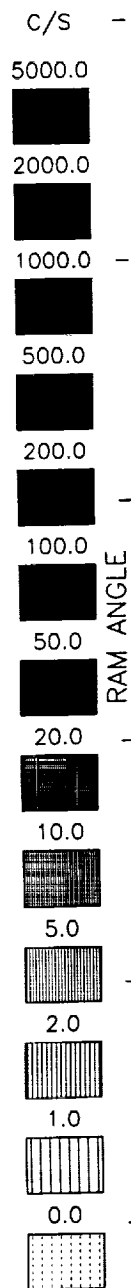
82/079 20-MAR 0015:00 - 0815:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0055	0135	0215	0255	0335	0000	0455	0535	0000	0655	0000	DEGS
RE	3.9	4.4	4.6	4.6	4.4	0.0	2.9	1.7	0.0	2.7	0.0	HHMM
L	4.0	5.0	6.5	8.6	12.6	0.0	100.0	5.1	0.0	3.2	0.0	RE
MLT	22.8	22.9	22.9	22.9	22.7	0.0	19.1	11.3	0.0	23.1	0.0	
MLAT	6.30	20.42	32.19	43.10	54.32	0.00	84.84	51.83	0.00	*****	0.00	HRS
INVLAT	59.9	63.5	66.8	70.1	73.6	0.0	87.1	63.6	0.0	55.8	0.0	DEGS

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Fri Sep 24 16:21:41 1993

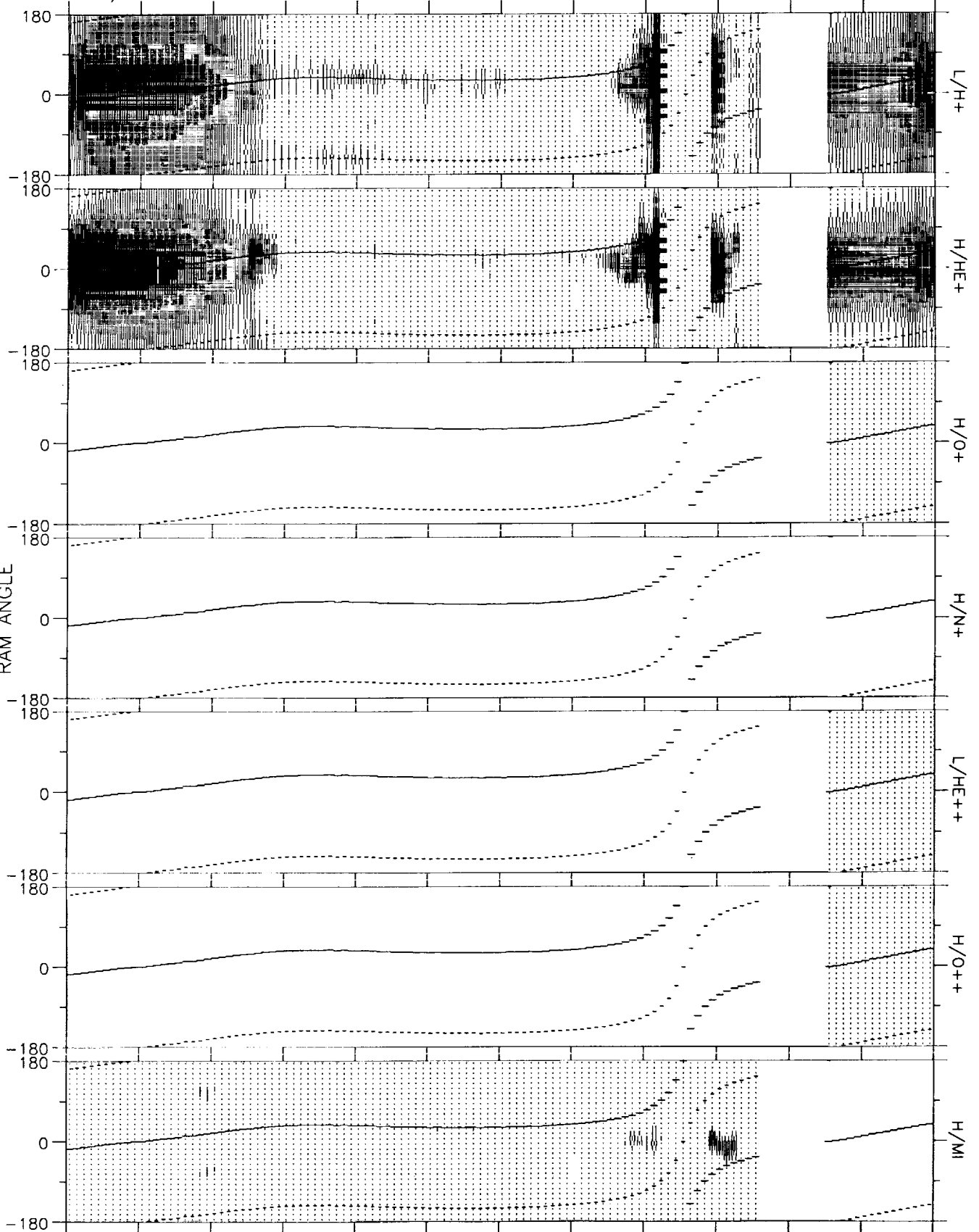
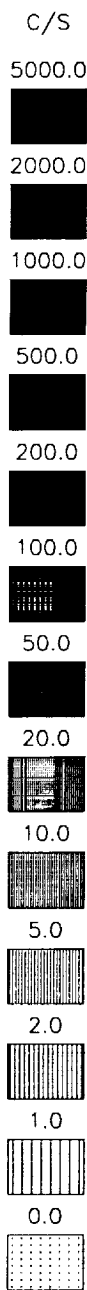
82/079 20-MAR 0700:00 - 1500:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0940	1020	1100	1140	1220	0000	1340	1420	DEGS
RE	0.0	0.0	0.0	4.6	4.4	3.9	3.1	1.8	0.0	2.6	3.6	HHMM
L	0.0	0.0	0.0	6.0	7.0	8.9	18.1	19.0	0.0	5.0	4.0	RE
MLT	0.0	0.0	0.0	22.4	22.2	21.9	21.3	12.8	0.0	23.0	22.8	HRS
MLAT	0.00	0.00	0.00	29.01	37.68	48.42	64.49	74.16	0.00	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	65.9	67.8	70.5	76.4	76.7	0.0	63.3	59.9	

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Fri Sep 24 16:25:53 1993

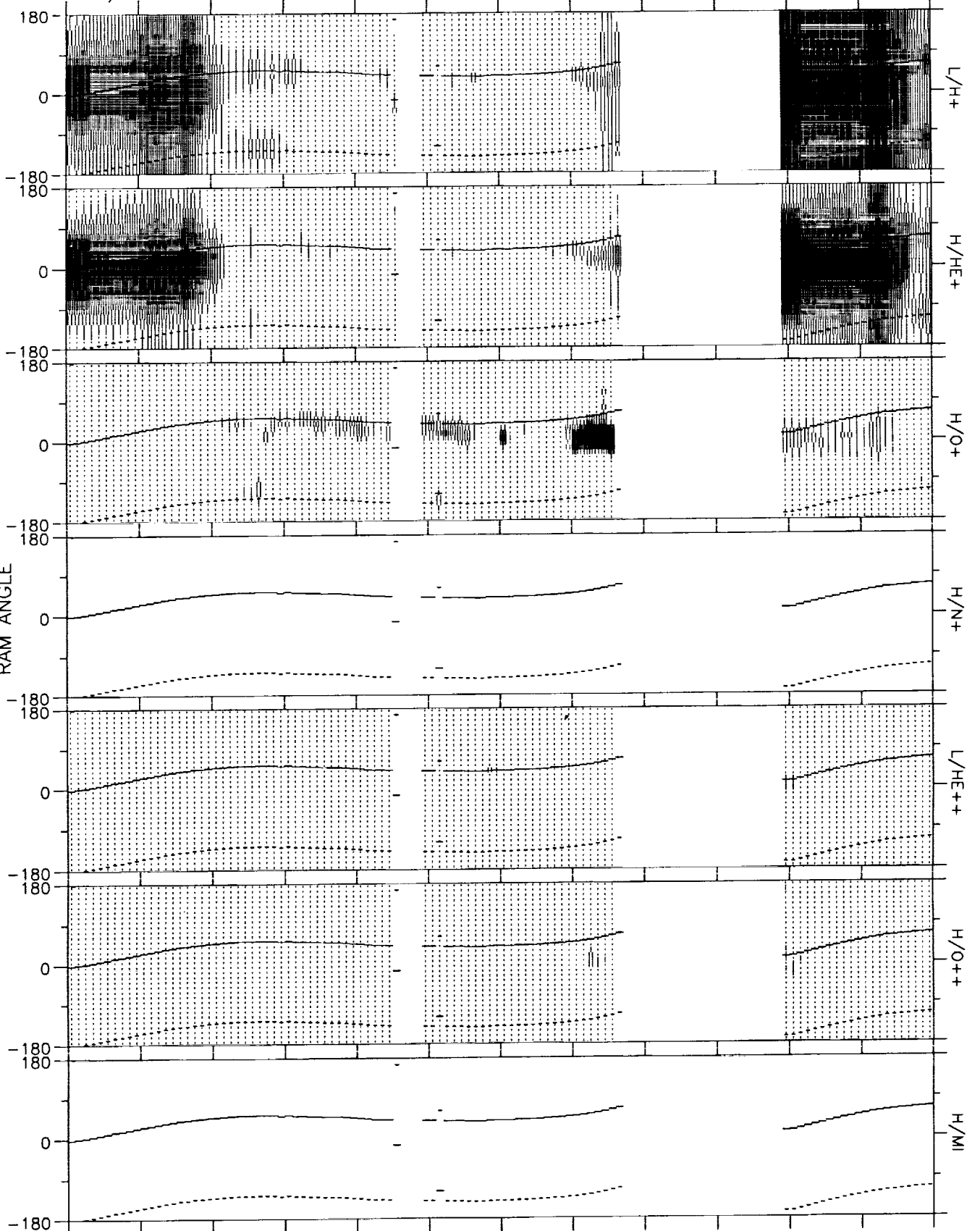
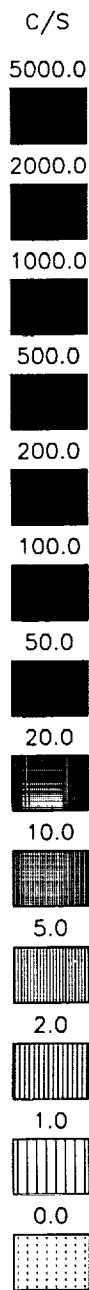
82/079 20-MAR 1400:00 - 2200:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1440	1520	1600	1640	1720	1800	1840	1920	2000	0000	2120	DEGS
RE	3.9	4.4	4.7	4.6	4.3	3.7	2.8	1.5	1.5	0.0	3.7	HHMM
L	4.0	4.4	4.8	5.4	6.3	8.7	24.8	4.5	20.6	0.0	3.9	RE
MLT	22.8	22.7	22.8	22.9	23.0	23.4	0.4	9.9	19.2	0.0	22.7	
MLAT	*****	-0.11	10.83	21.63	33.47	48.01	69.10	54.69	*****	0.00	-6.28	HRS
INVLAT	60.2	61.4	62.8	64.5	66.6	70.2	78.4	61.8	77.3	0.0	59.4	DEGS

DE RMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Fri Sep 24 16:27:48 1993

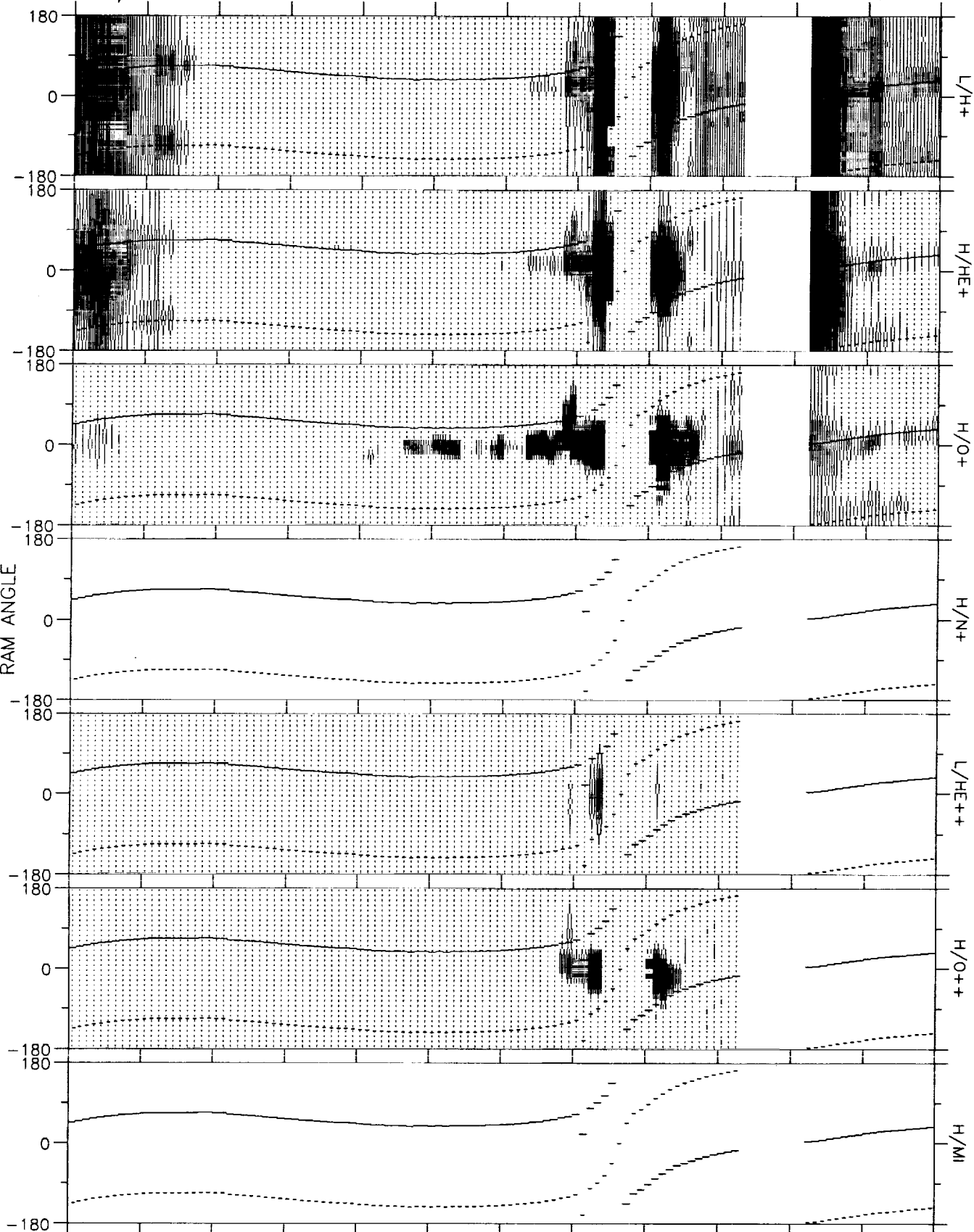
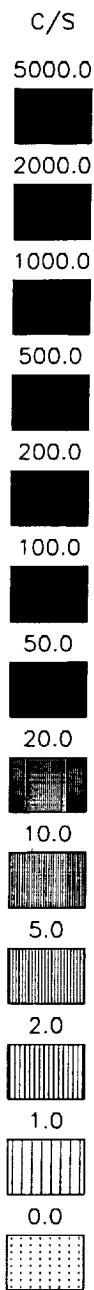
82/079 20-MAR 2100:00 - 0500:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	2140	2220	2300	2340	0020	0100	0140	0000	0000	0340	0420	DEGS
RE	4.1	4.5	4.7	4.6	4.2	3.6	2.6	0.0	0.0	3.1	3.9	HHMM
L	4.1	4.8	5.9	7.6	11.1	25.0	-0.0	0.0	0.0	3.2	4.1	RE
MLT	22.8	22.9	23.1	23.2	23.5	23.9	8.1	0.0	0.0	22.7	22.7	HRS
MLAT	2.28	16.18	28.51	40.59	53.60	69.45	82.23	0.00	0.00	-9.31	8.87	DEGS
INVLAT	60.5	63.0	65.7	68.7	72.6	78.4	-0.0	0.0	0.0	56.0	60.2	

DE RIMS SPIN SUMMARY
SPINRADIAL (V1.0)
Sat Sep 25 15:35:50 1993

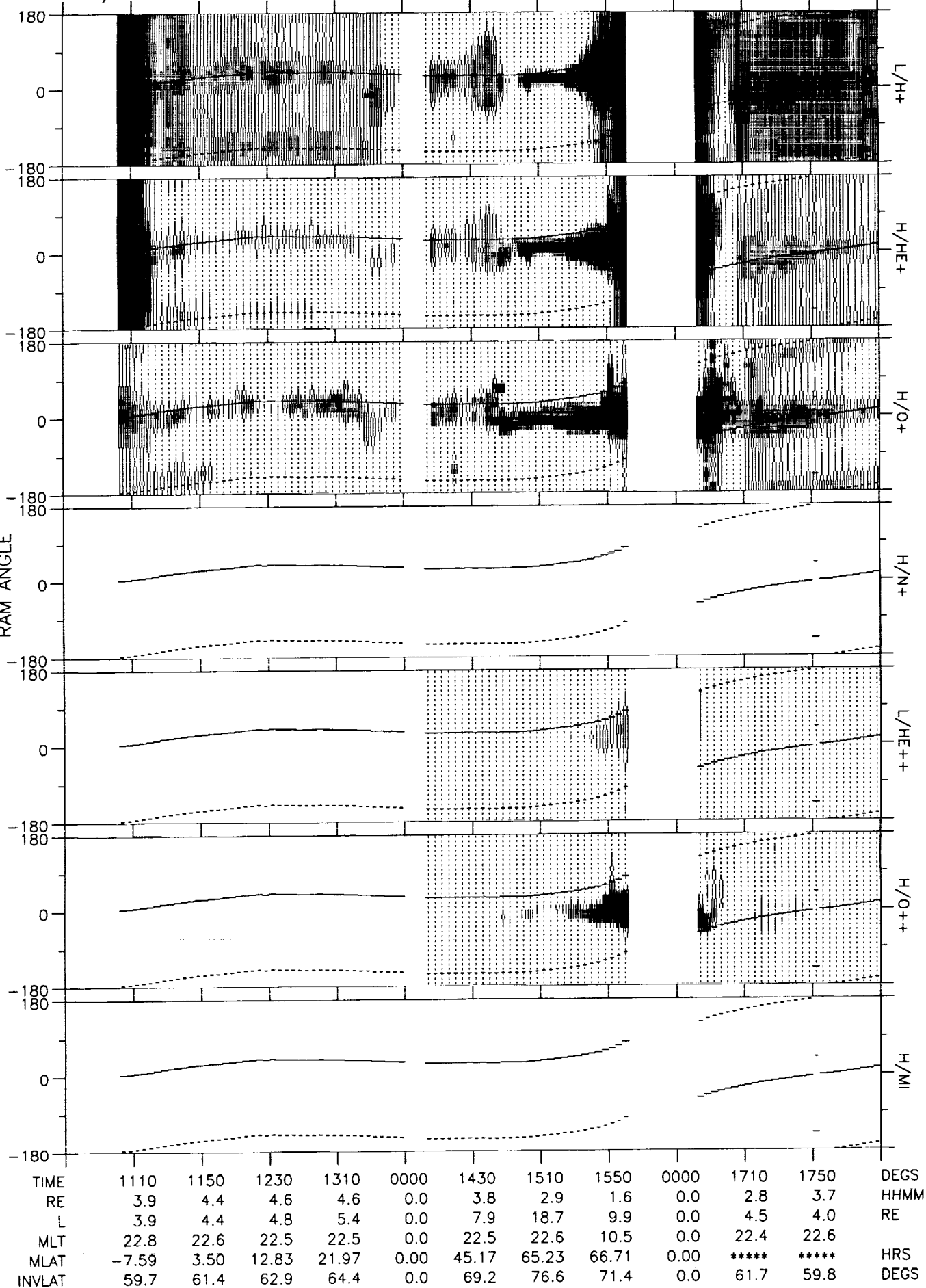
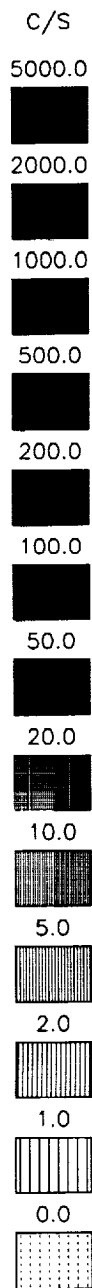
82/080 21-MAR 0415:00 - 1215:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0455	0535	0615	0655	0735	0815	0855	0935	1015	0000	1135	DEGS
RE	4.4	4.6	4.6	4.4	3.9	3.0	1.7	1.3	2.6	0.0	4.3	HHMM
L	5.0	6.2	7.6	9.7	14.2	40.6	7.0	15.0	3.9	0.0	4.2	RE
MLT	22.6	22.5	22.4	22.1	21.6	20.1	12.2	6.9	23.2	0.0	22.7	
MLAT	19.78	29.78	38.75	47.87	58.63	73.44	60.41	*****	*****	0.00	-0.31	HRS
INVLAT	63.4	66.3	68.8	71.3	74.6	81.0	67.7	75.0	59.5	0.0	60.8	DEGS

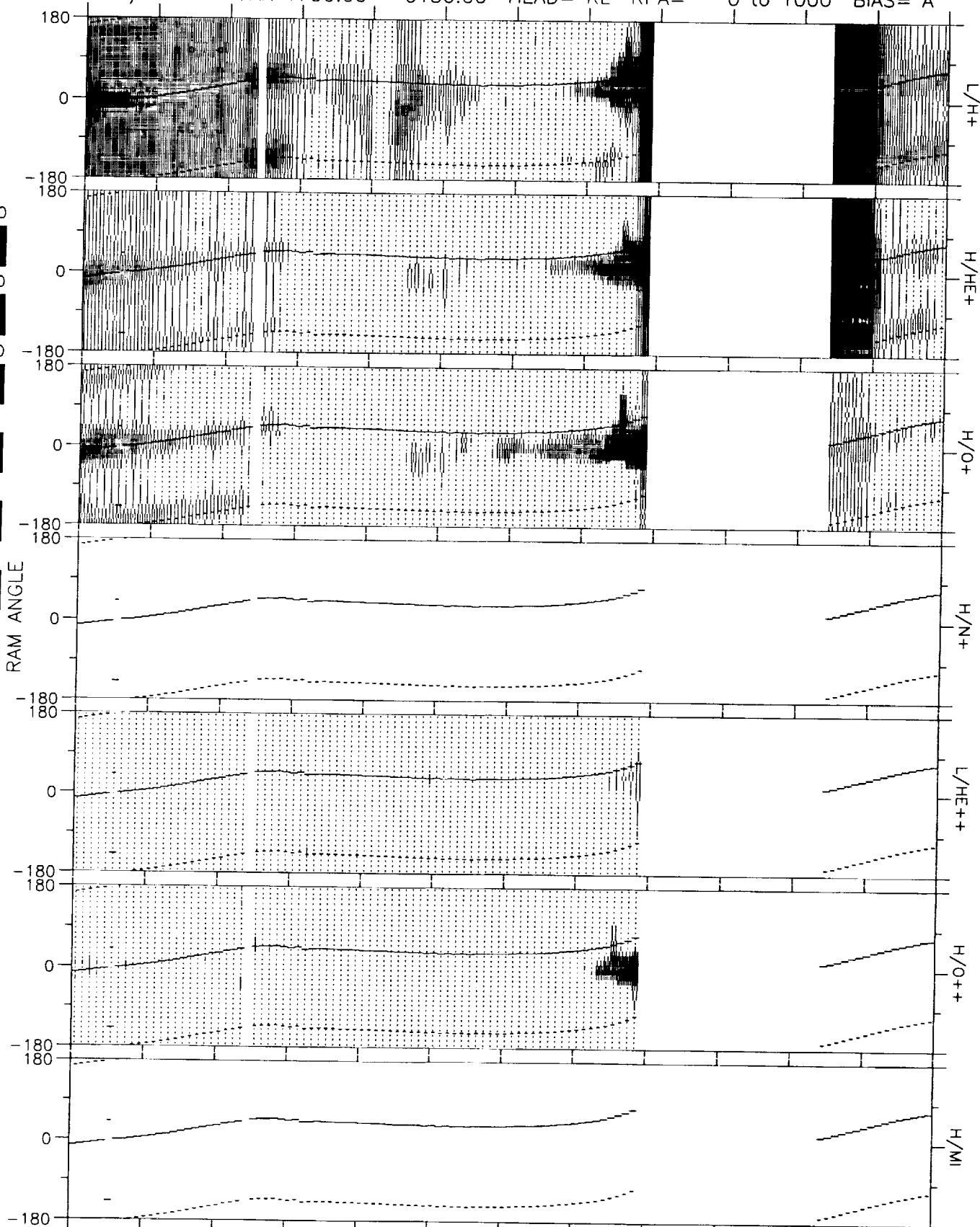
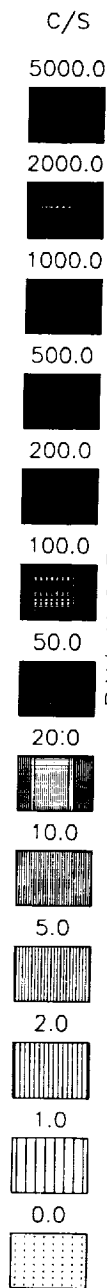
DE RIMS SPIN SUMMARY
SPIN_RADIALALL (V1.0)
Sat Sep 25 15:38:19 1993

82/080 21-MAR 1030:00 - 1830:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Sat Sep 25 15:40:46 1993

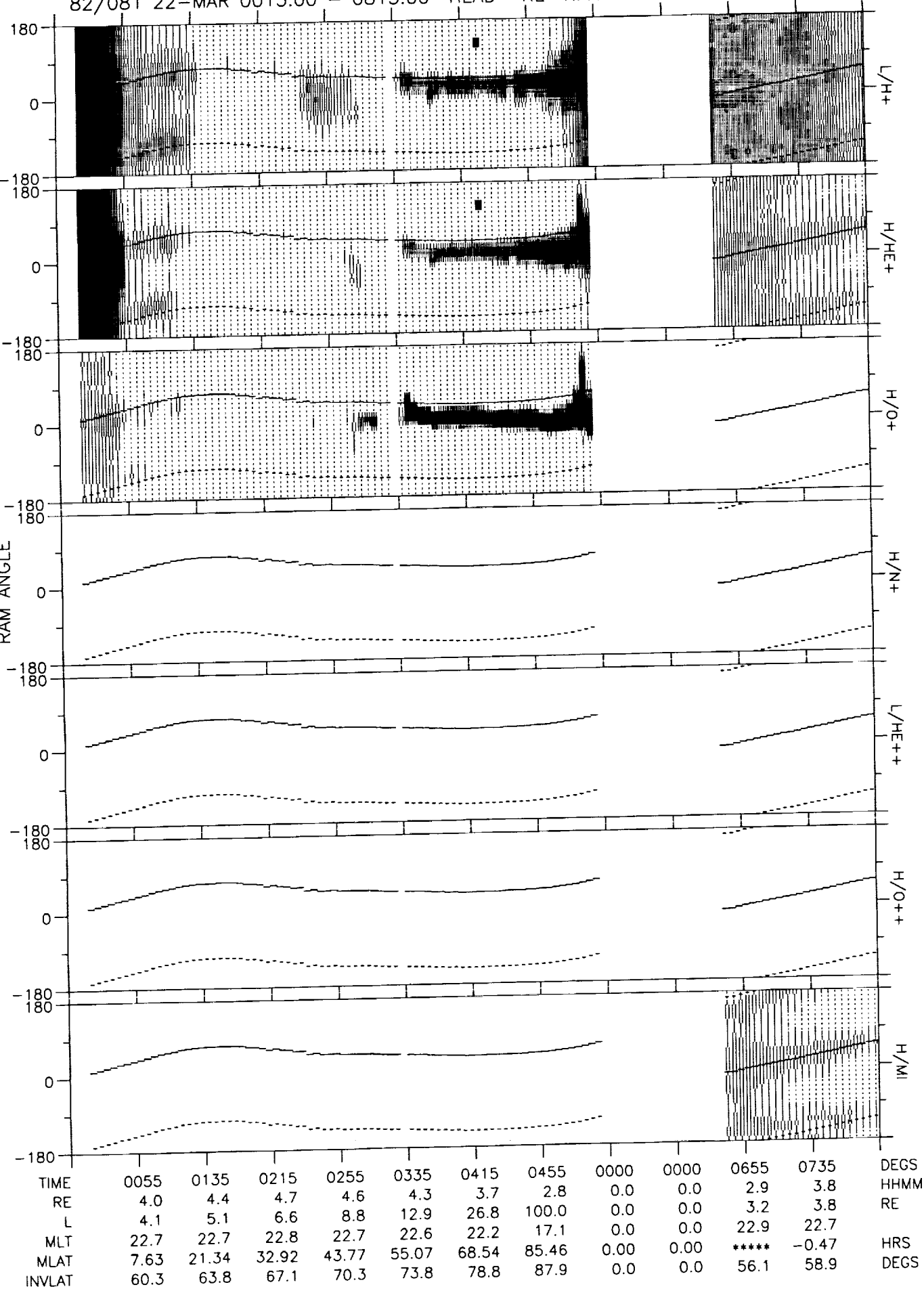
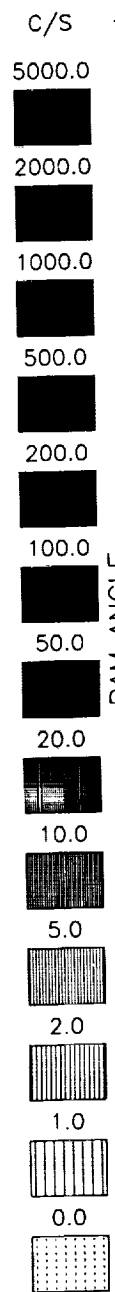
82/080 21-MAR 1730:00 - 0130:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1810	1850	1930	2010	2050	2130	2210	0000	0000	0000	0050	DEGS
RE	4.0	4.5	4.7	4.6	4.2	3.6	2.6	0.0	0.0	0.0	3.9	HHMM
L	4.1	4.5	5.1	6.0	7.7	12.6	69.9	0.0	0.0	0.0	4.0	RE
MLT	22.7	22.8	23.0	23.2	23.5	1.1	3.4	0.0	0.0	0.0	22.6	
MLAT	-7.90	5.70	17.83	29.82	42.80	58.48	78.06	0.00	0.00	0.00	5.67	HRS
INVLAT	60.4	61.9	63.8	66.0	68.9	73.7	83.1	0.0	0.0	0.0	59.9	DEGS

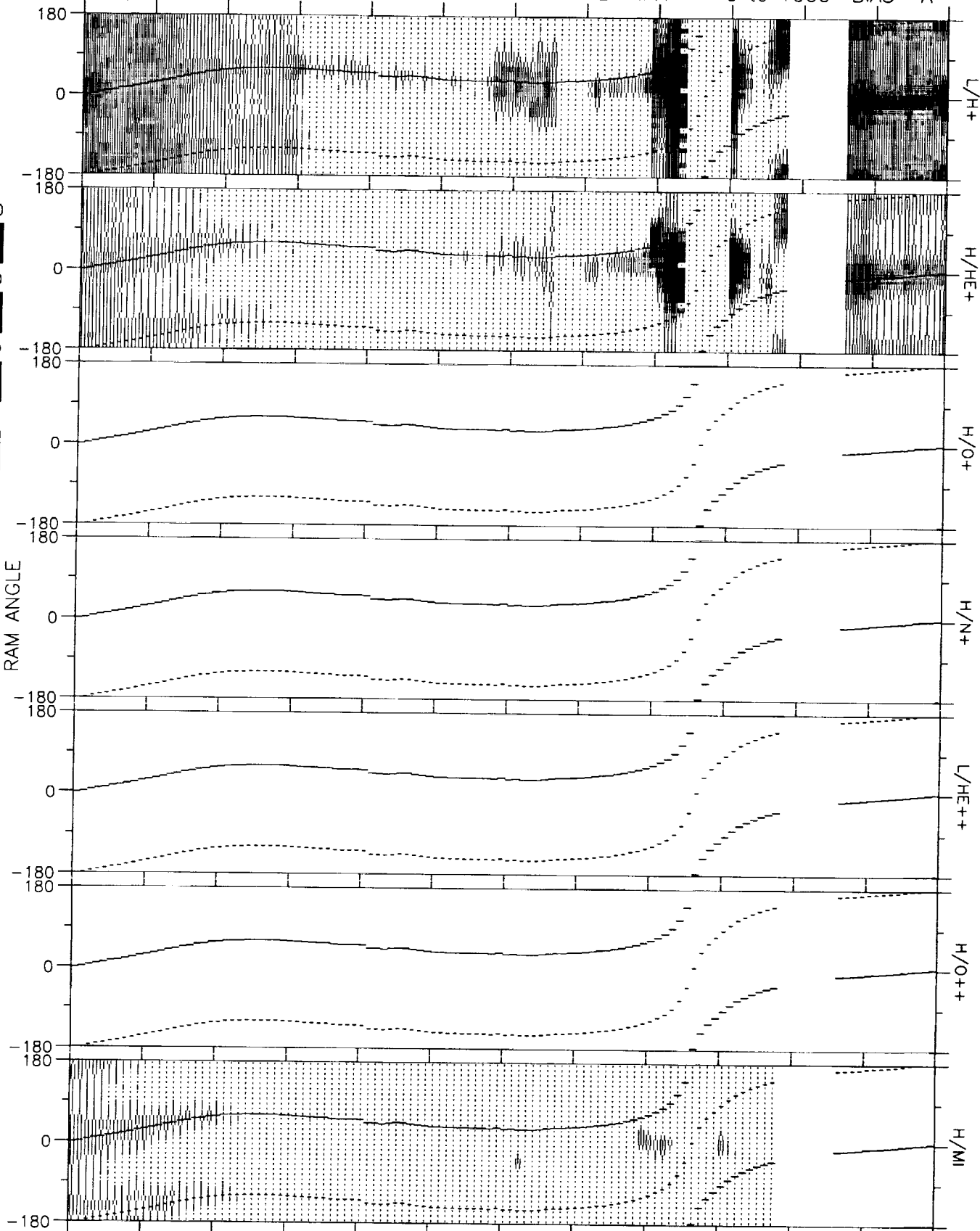
DE RIMS SPIN SUMMARY
SPIN/RADIAL/L (V1.0)
Sat Sep 25 15:43/05 1993

82/081 22-MAR 0015:00 - 0815:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Sat Sep 25 15:45:06 1993

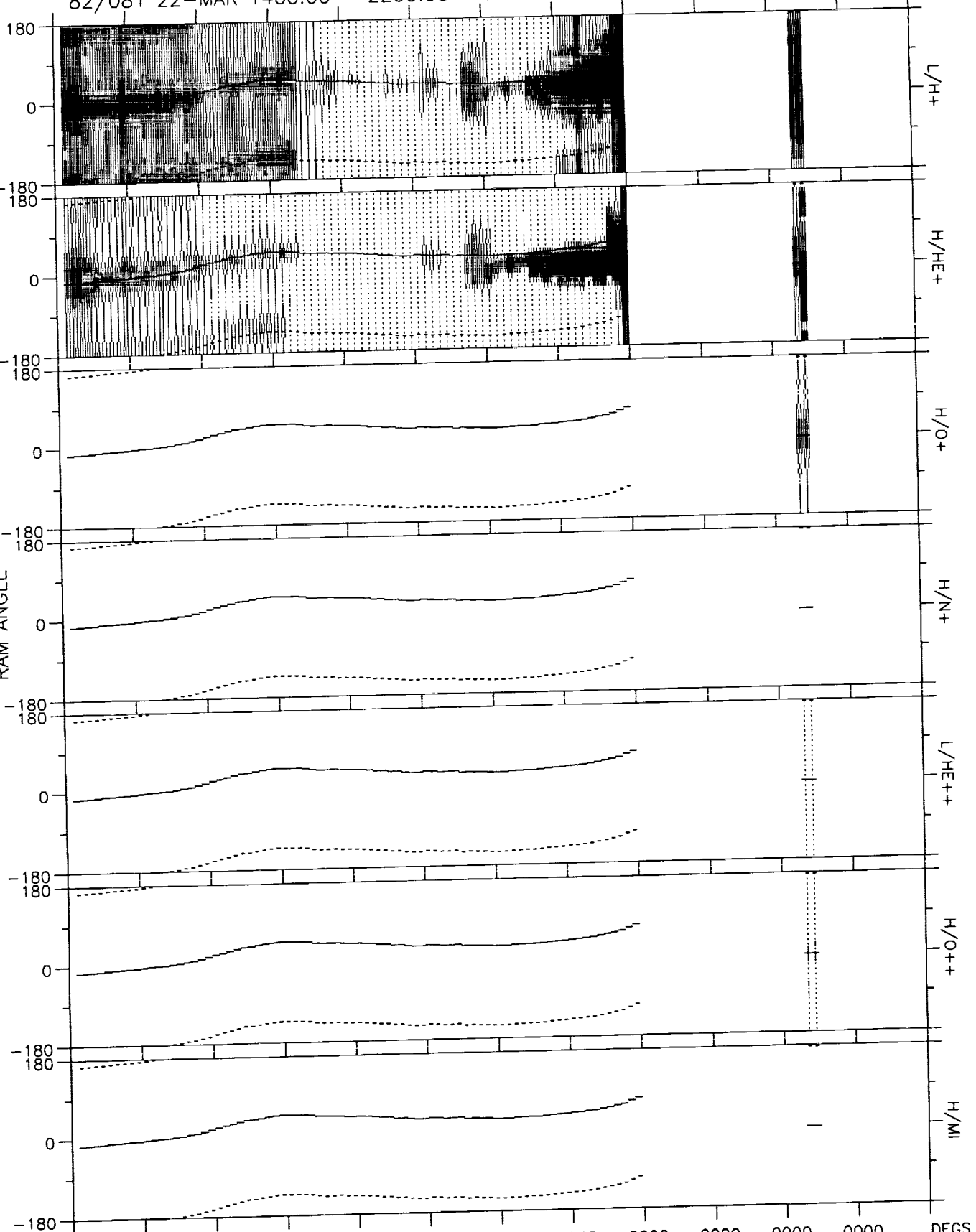
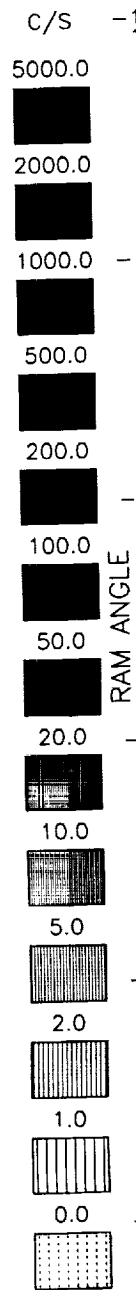
82/081 22-MAR 0700:00 - 1500:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0740	0820	0900	0940	1020	1100	1140	1220	1300	0000	1420	DEGS
RE	3.9	4.4	4.6	4.6	4.4	3.8	2.9	1.7	1.4	0.0	3.7	HHMM
L	3.8	4.5	5.3	6.0	7.0	9.1	20.5	8.8	20.2	0.0	4.0	RE
MLT	22.7	22.5	22.4	22.2	22.0	21.8	21.1	11.9	8.4	0.0	22.6	
MLAT	1.23	12.27	21.04	29.21	38.06	49.21	66.41	67.26	*****	0.00	*****	HRS
INVLAT	59.3	62.0	64.1	65.9	67.8	70.6	77.2	70.3	77.1	0.0	60.0	DEGS

DE RMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Sat Sep 25 15:47:01 1993

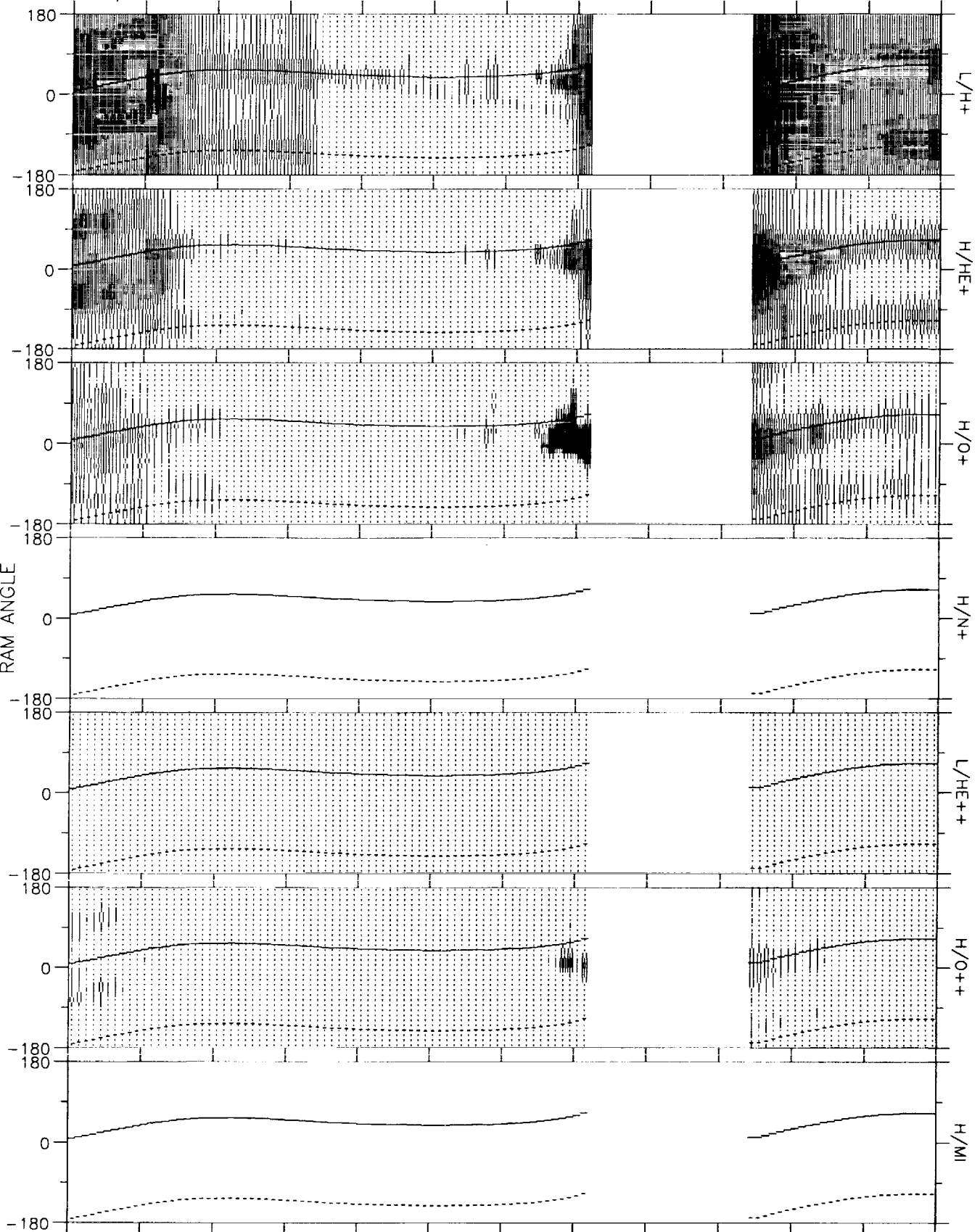
82/081 22-MAR 1400:00 - 2200:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1440	1520	1600	1640	1720	1800	1840	0000	0000	0000	0000	DEGS
RE	4.0	4.5	4.7	4.6	4.3	3.7	2.7	0.0	0.0	0.0	0.0	HHMM
L	4.1	4.4	4.8	5.4	6.4	9.0	31.8	0.0	0.0	0.0	0.0	RE
MLT	22.6	22.6	22.7	22.8	22.9	23.3	0.6	0.0	0.0	0.0	0.0	HRS
MLAT	****	0.58	11.47	22.35	34.42	49.46	71.82	0.00	0.00	0.00	0.00	DEGS
INVLAT	60.4	61.6	63.0	64.5	66.7	70.5	79.8	0.0	0.0	0.0	0.0	

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Tue Sep 28 15:36:15 1993

82/081 22-MAR 2115:00 - 0515:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	2155	2235	2315	2355	0035	0115	0155	0000	0000	0355	0435	DEGS
RE	4.3	4.6	4.7	4.4	3.9	3.1	1.9	0.0	0.0	3.5	4.2	HHMM
L	4.4	5.3	6.5	8.8	14.6	64.0	9.5	0.0	0.0	3.6	4.5	RE
MLT	22.8	22.9	23.0	23.2	23.4	0.7	10.1	0.0	0.0	22.6	22.6	
MLAT	8.97	21.88	33.95	46.27	60.39	78.90	61.18	0.00	0.00	0.15	14.67	HRS
INVLAT	61.7	64.2	67.0	70.3	74.8	82.8	71.1	0.0	0.0	58.1	62.0	DEGS

DE RMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Sat Sep 25 15:48:42 1993

82/082 23-MAR 0330:00 - 1130:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

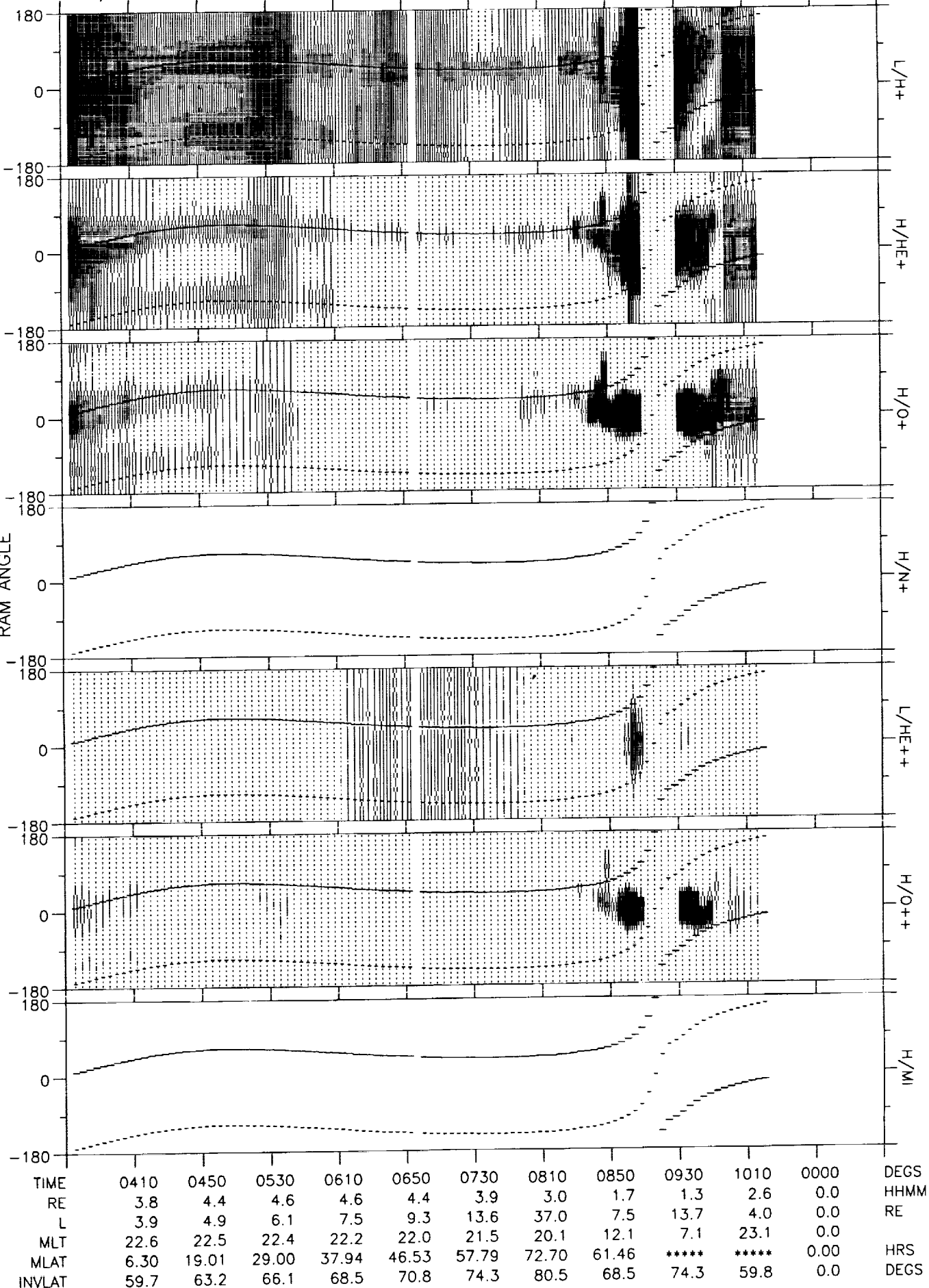
5.0

2.0

1.0

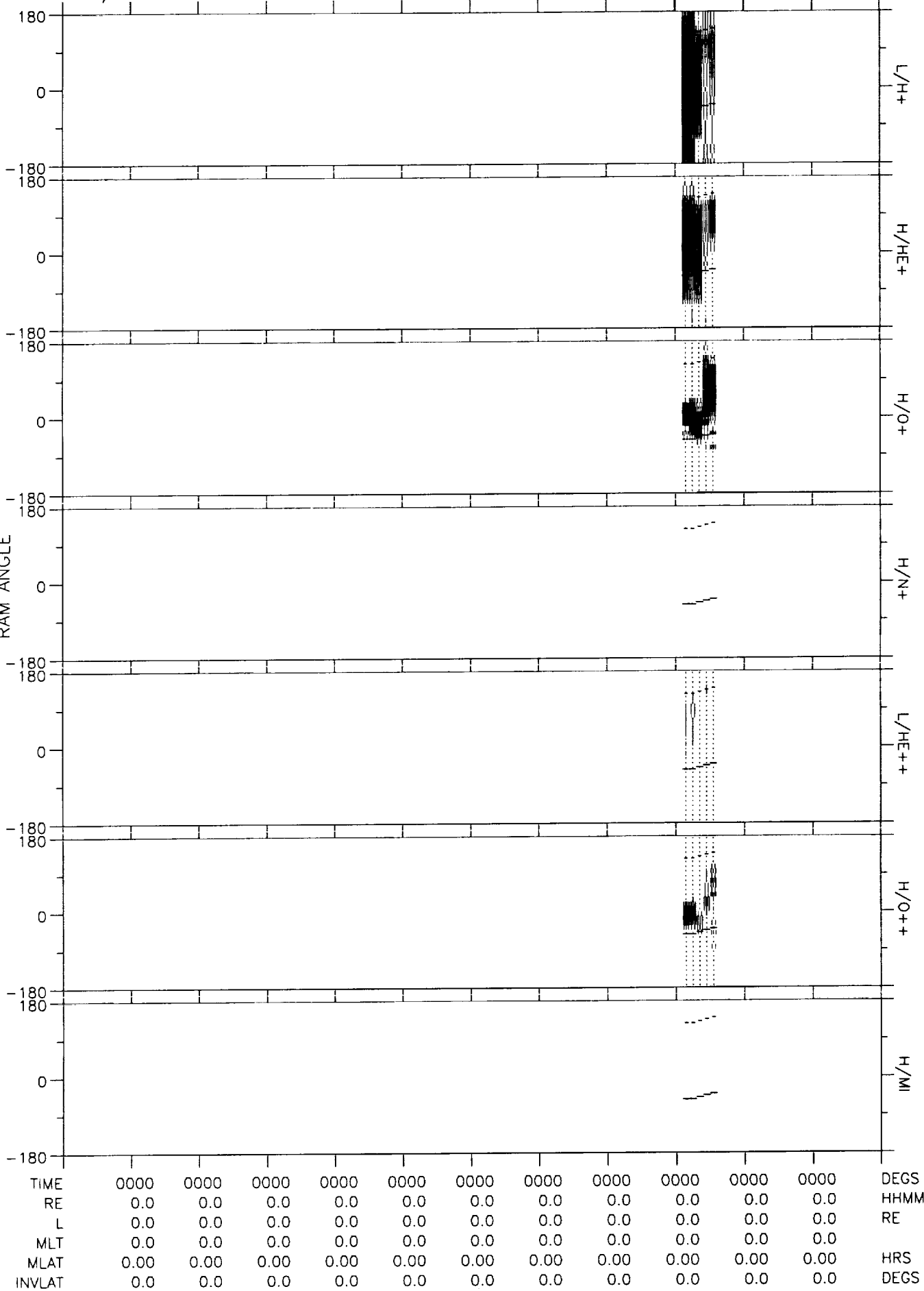
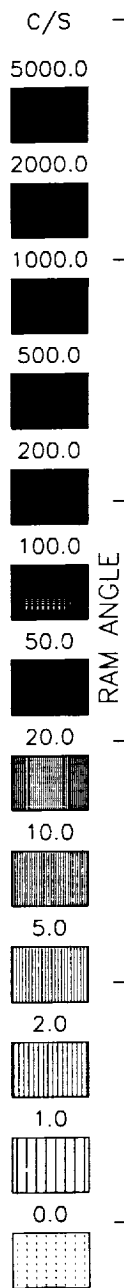
0.0

RAM ANGLE



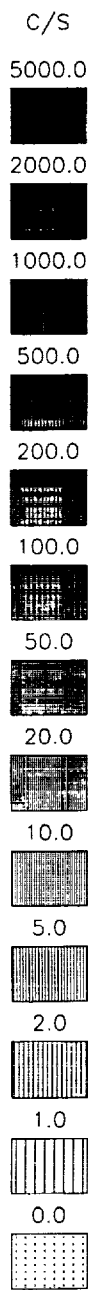
DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Sat Sep 25 15:51:11 1993

82/082 23-MAR 1030:00 - 1830:00 HEAD= RL RPA= 0 to 1000 BIAS= A

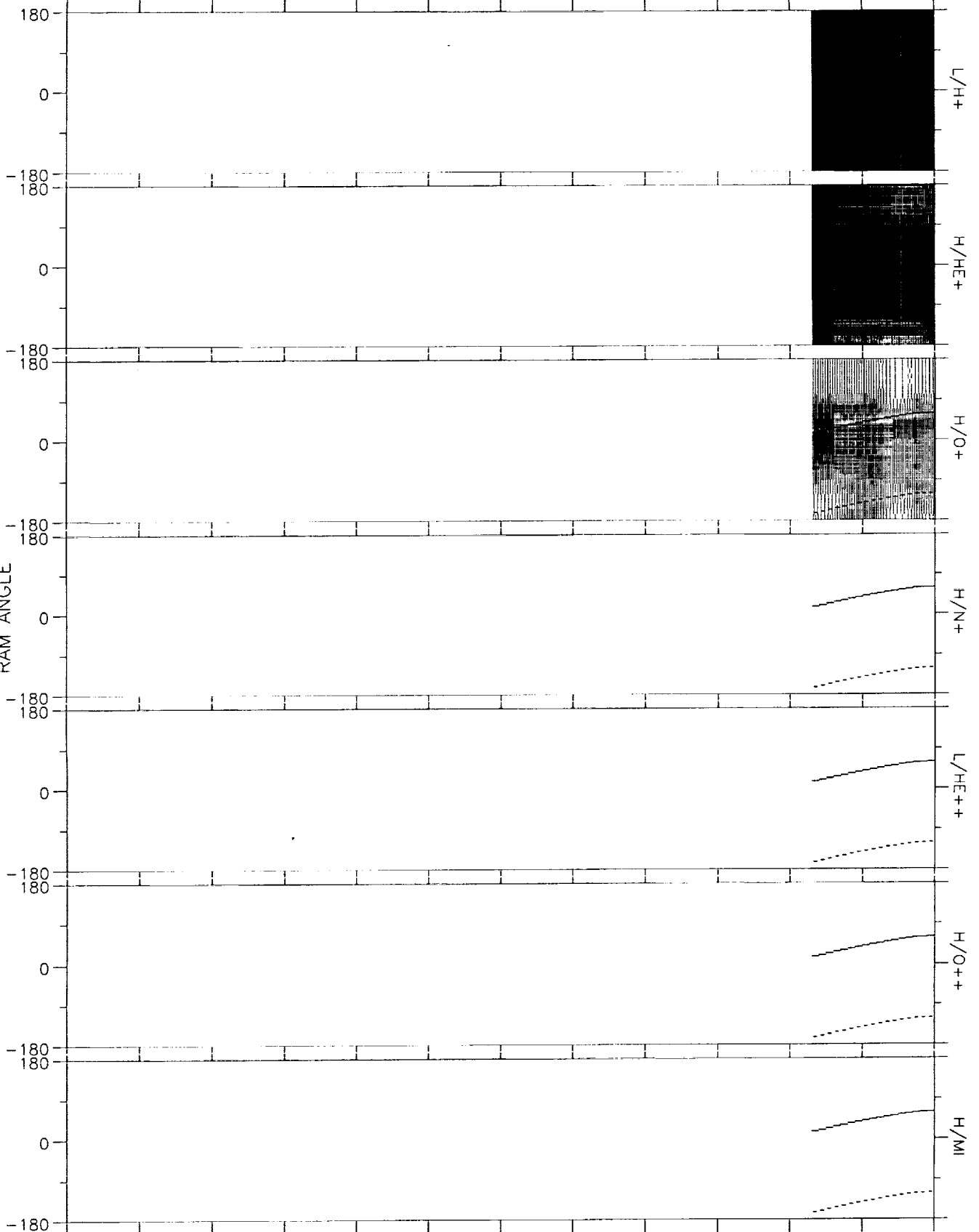


DE RIMS SPIN SUMMARY
SPIN-RADIAL-LAT (V1.0)
Mon Dec 6 09:26:16 1993

82/082 23-MAR 1730:00 - 0130:00 HEAD= RL RPA= 0 to 1000 BIAS= A



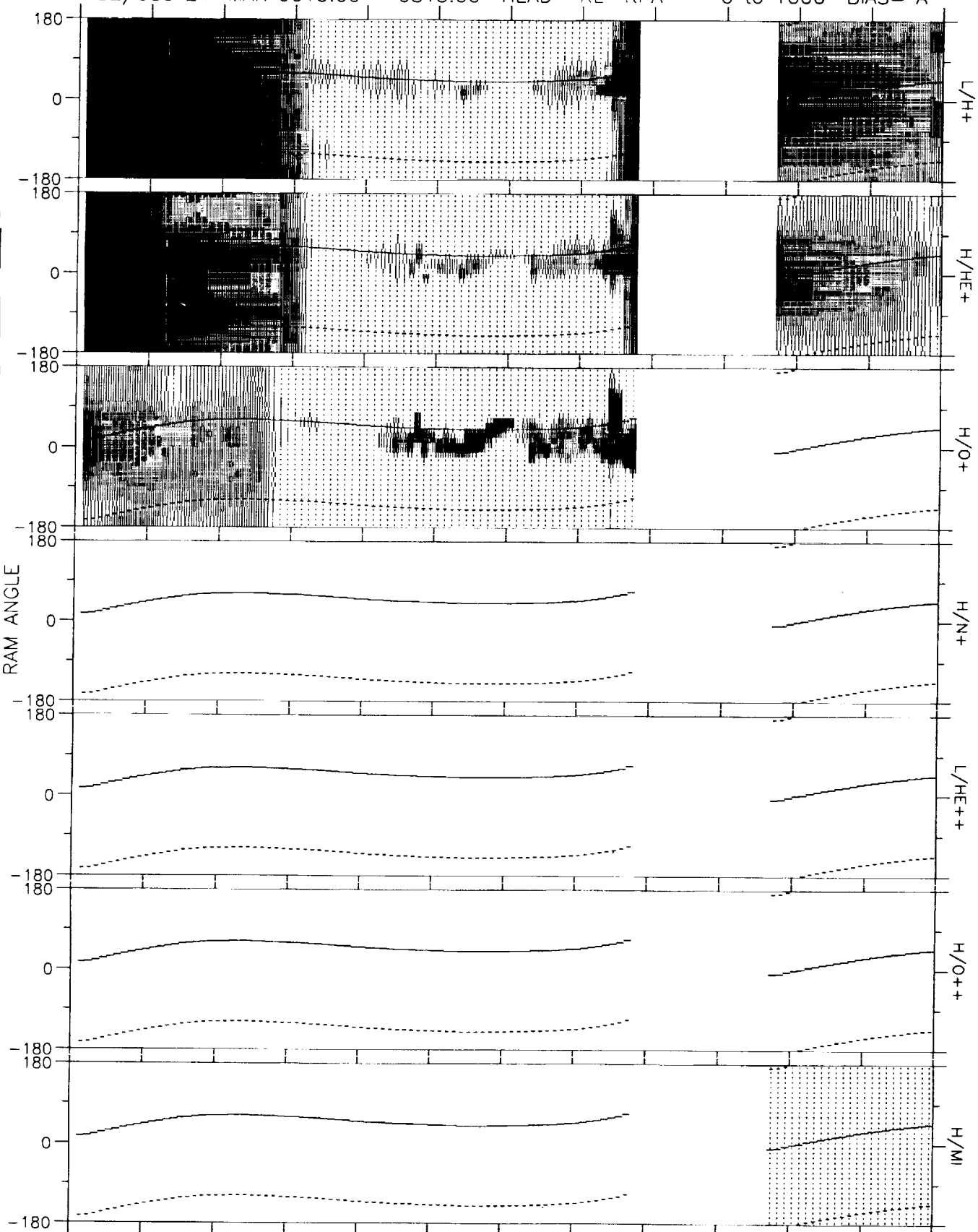
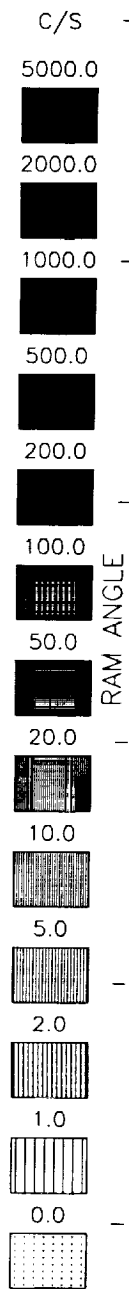
RAM ANGLE



TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0050	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.99	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.3	DEGS

DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Sat Sep 25 15:59:38 1993

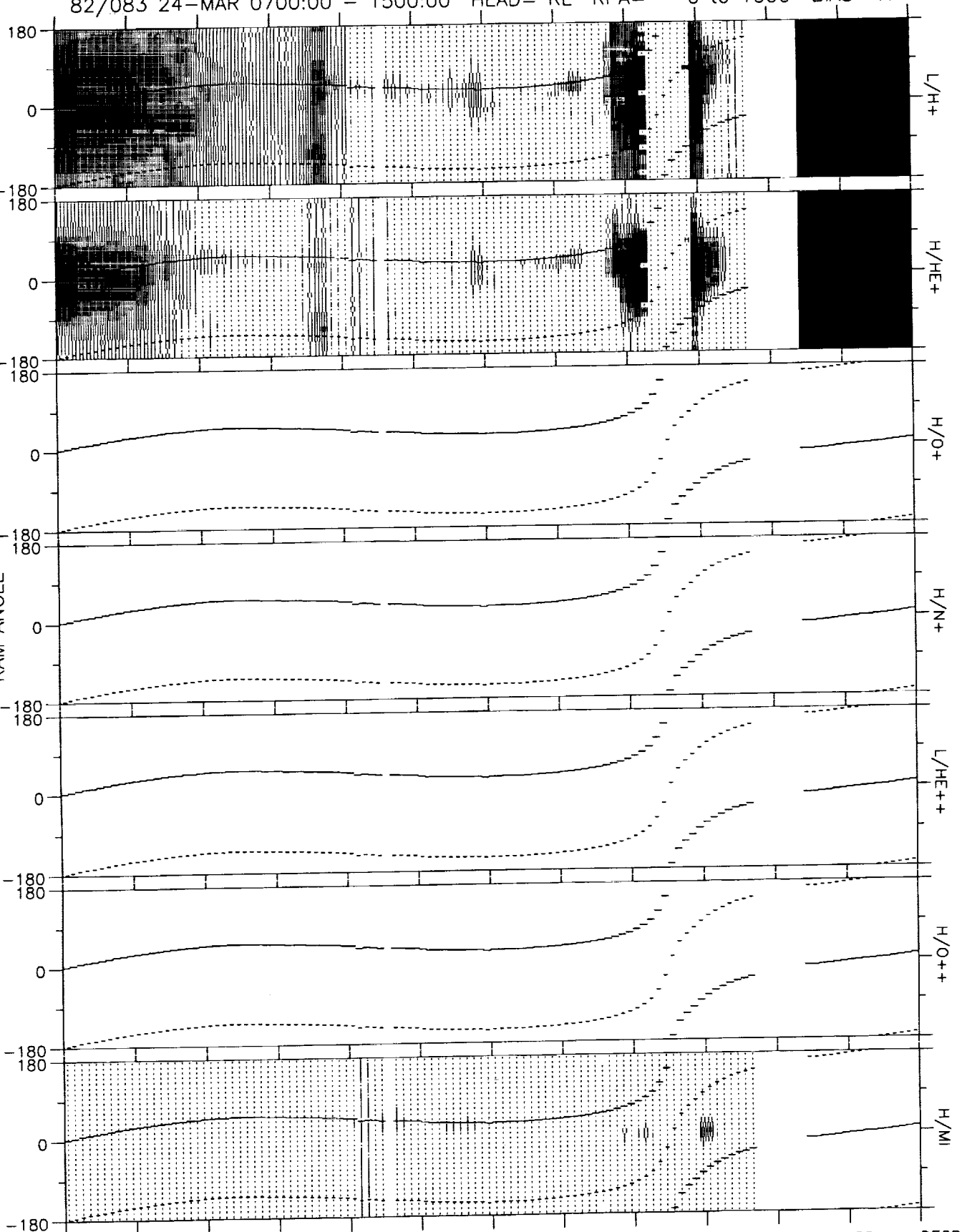
82/083 24-MAR 0015:00 - 0815:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0055	0135	0215	0255	0335	0415	0455	0000	0000	0655	0735	DEGS
RE	4.0	4.5	4.7	4.6	4.3	3.6	2.6	0.0	0.0	3.0	3.9	HHMM
L	4.2	5.2	6.7	8.9	13.3	29.1	100.0	0.0	0.0	3.3	3.8	RE
MLT	22.6	22.6	22.6	22.6	22.4	22.0	14.9	0.0	0.0	22.8	22.6	
MLAT	8.92	22.24	33.63	44.42	55.86	69.75	84.62	0.00	0.00	*****	0.38	HRS
INVLAT	60.7	64.1	67.3	70.4	74.1	79.3	87.7	0.0	0.0	56.5	59.3	DEGS

DE RIMS SPIN SUMMARY
SPIN/RADIAL (V1.0)
Set Sep 25 16:02:12 1993

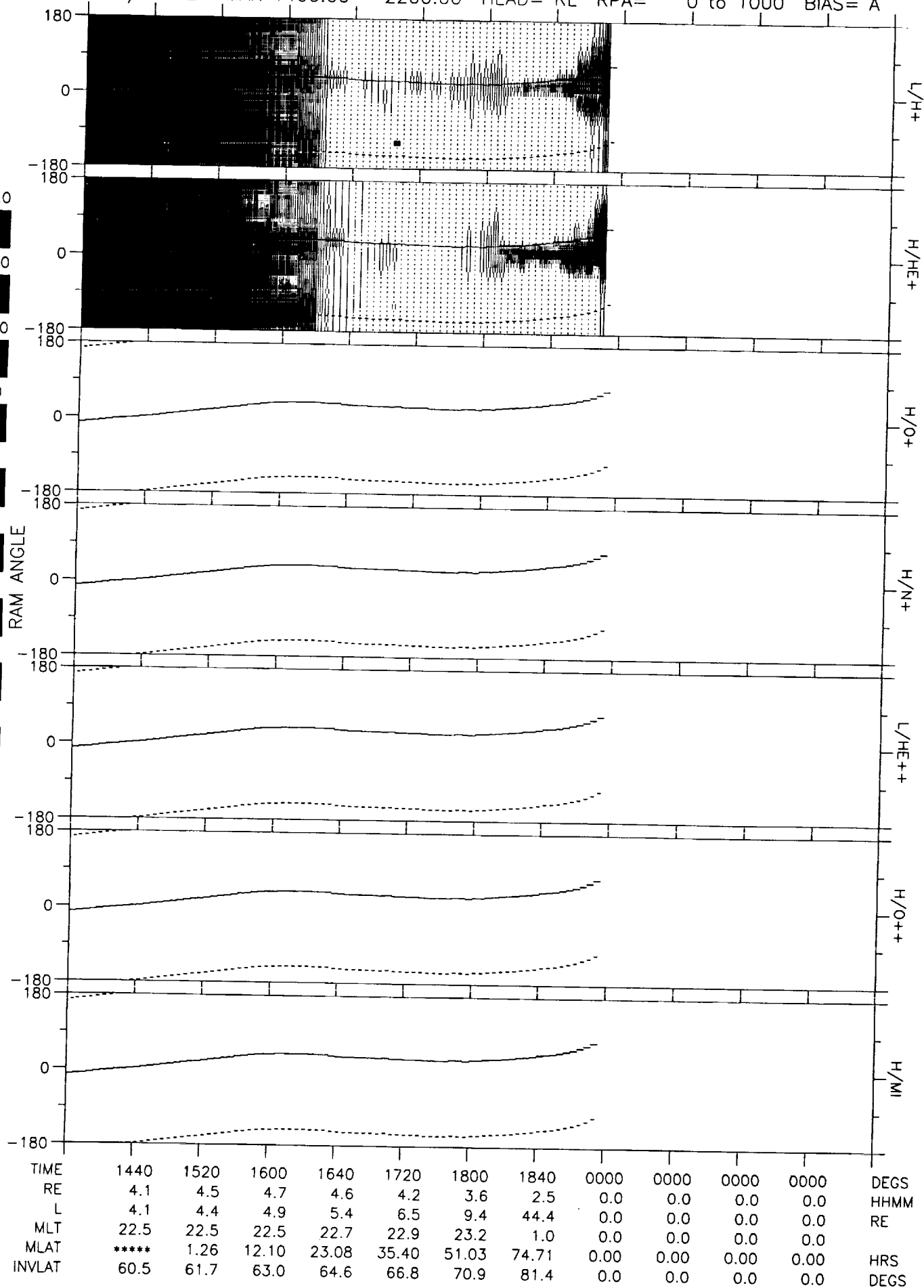
82/083 24-MAR 0700:00 - 1500:00 HEAD= RL RPA= 0 to 1000 BIAS= A

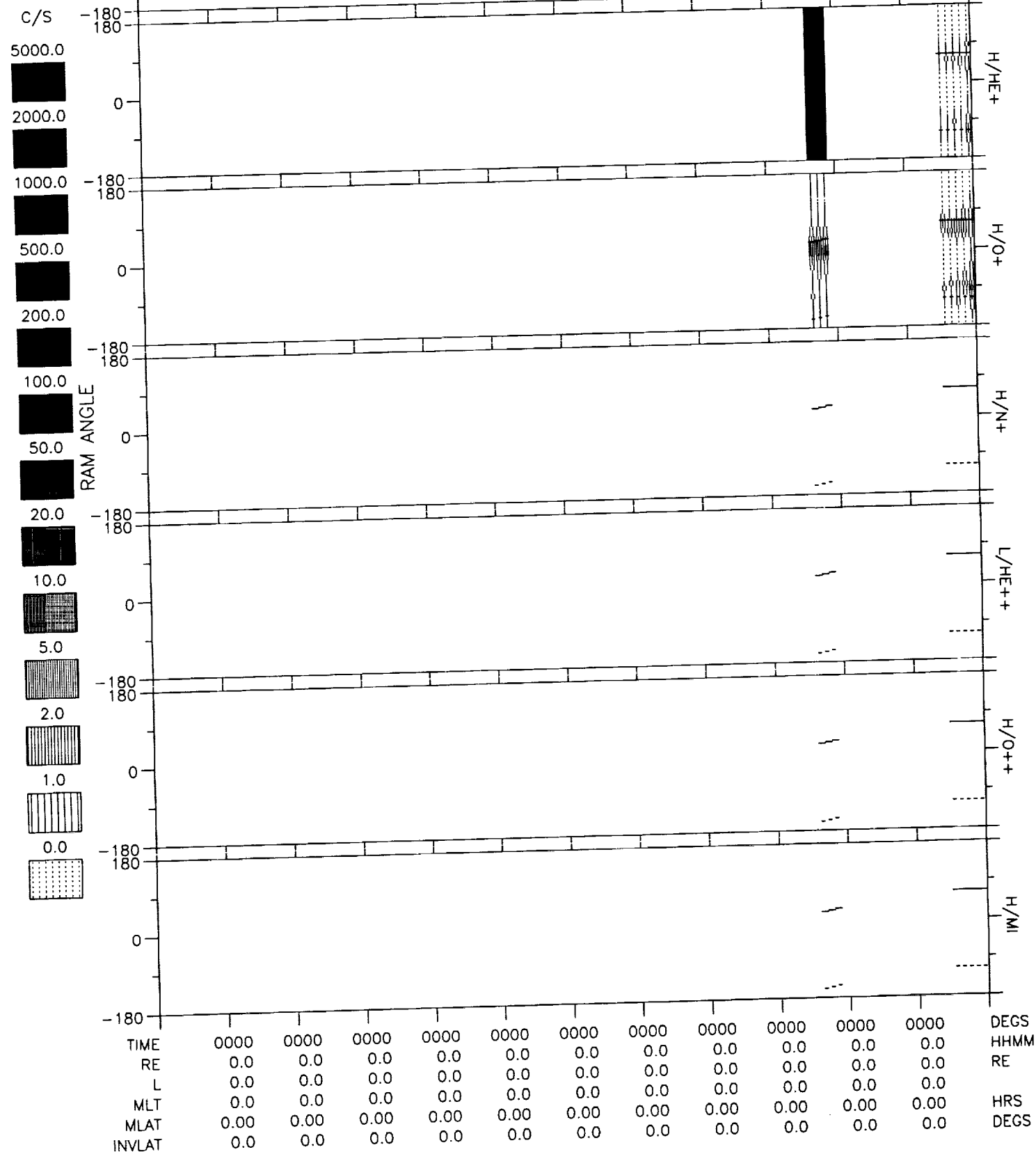


TIME	0740	0820	0900	0940	1020	1100	1140	1220	1300	0000	1420	DEGS
RE	3.9	4.4	4.7	4.6	4.3	3.7	2.8	1.5	1.5	0.0	3.8	HHMM
L	3.9	4.6	5.3	6.0	7.0	9.2	24.2	4.4	100.0	0.0	4.0	RE
MLT	22.6	22.4	22.2	22.1	21.9	21.6	20.9	11.3	3.4	0.0	22.5	HRS
MLAT	1.96	12.61	21.24	29.43	38.43	50.09	68.59	57.92	*****	0.00	*****	DEGS
INVLAT	59.7	62.2	64.2	65.9	67.8	70.8	78.3	61.4	85.4	0.0	60.2	

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Sat Sep 25 16:04:30 1993

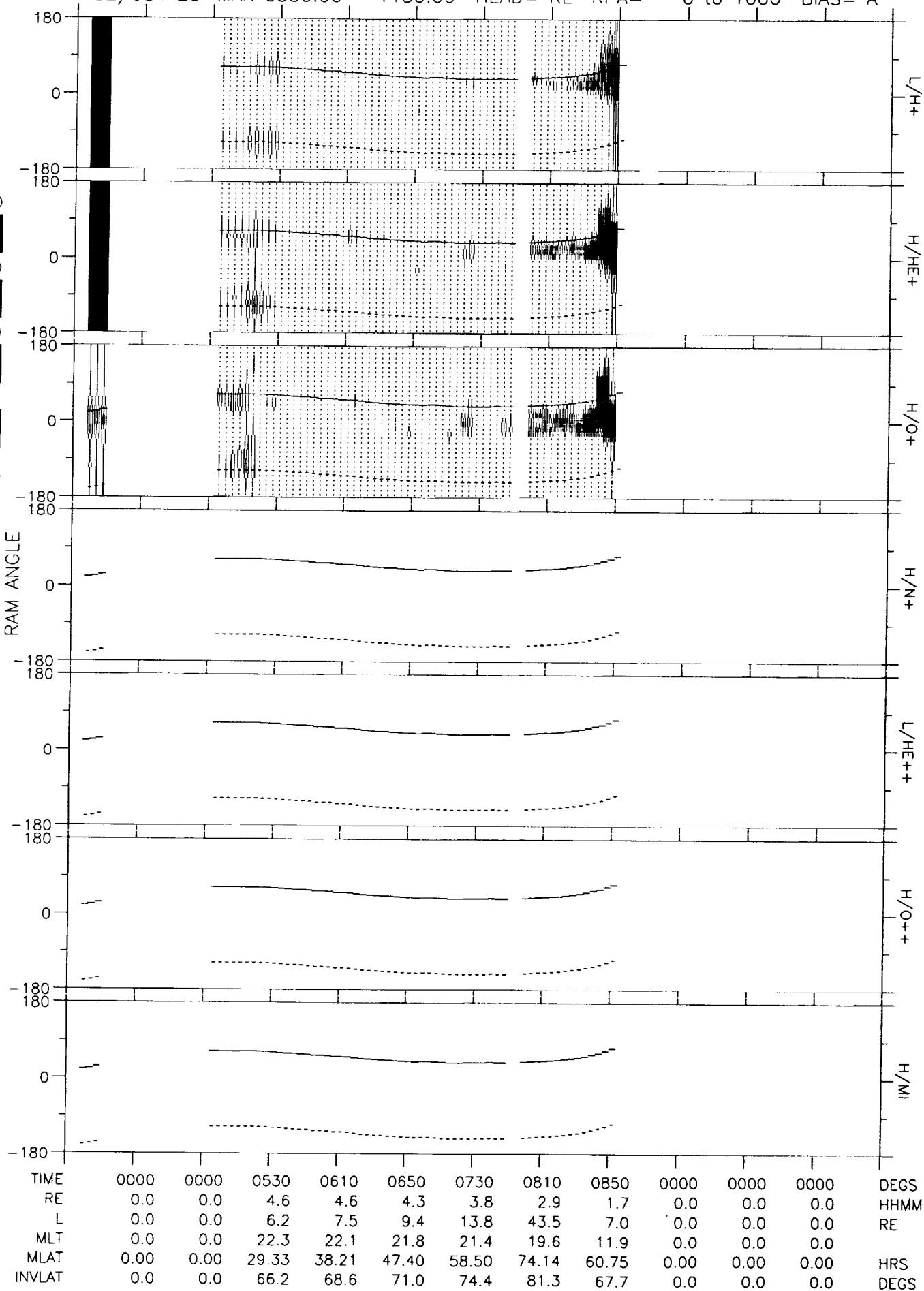
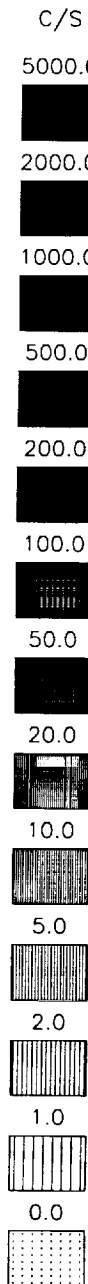
82/083 24-MAR 1400:00 - 2200:00 HEAD= RL RPA= 0 to 1000 BIAS= A





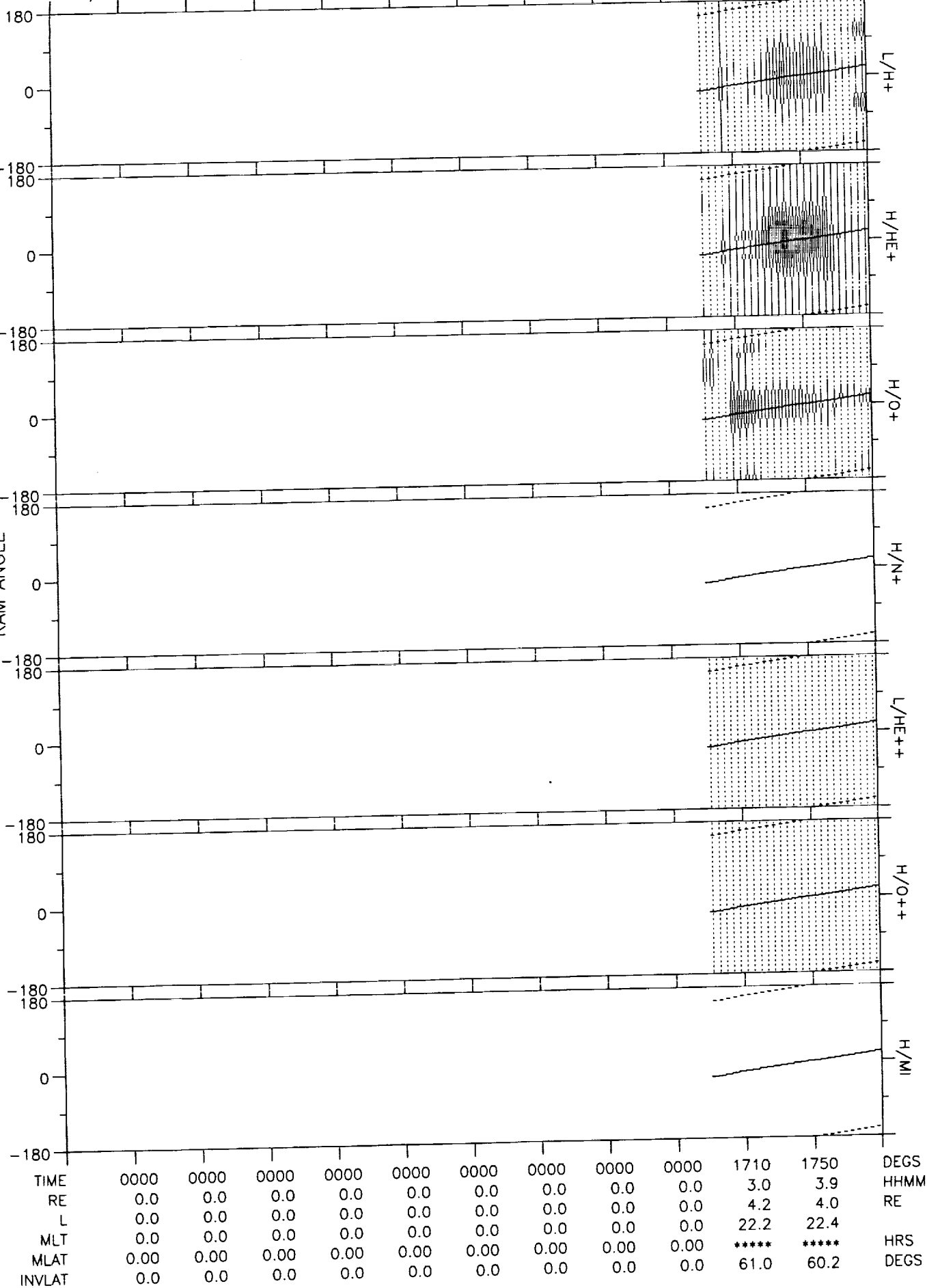
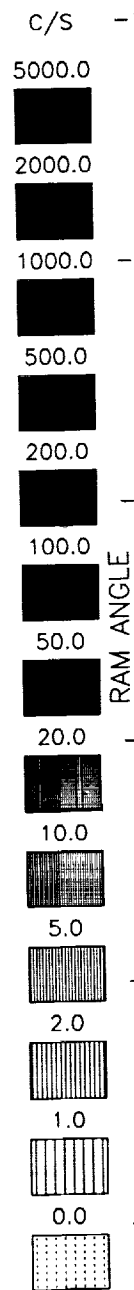
DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Sat Sep 25 16:07:44 1993

82/084 25-MAR 0330:00 - 1130:00 HEAD= RL RPA= 0 to 1000 BIAS= A



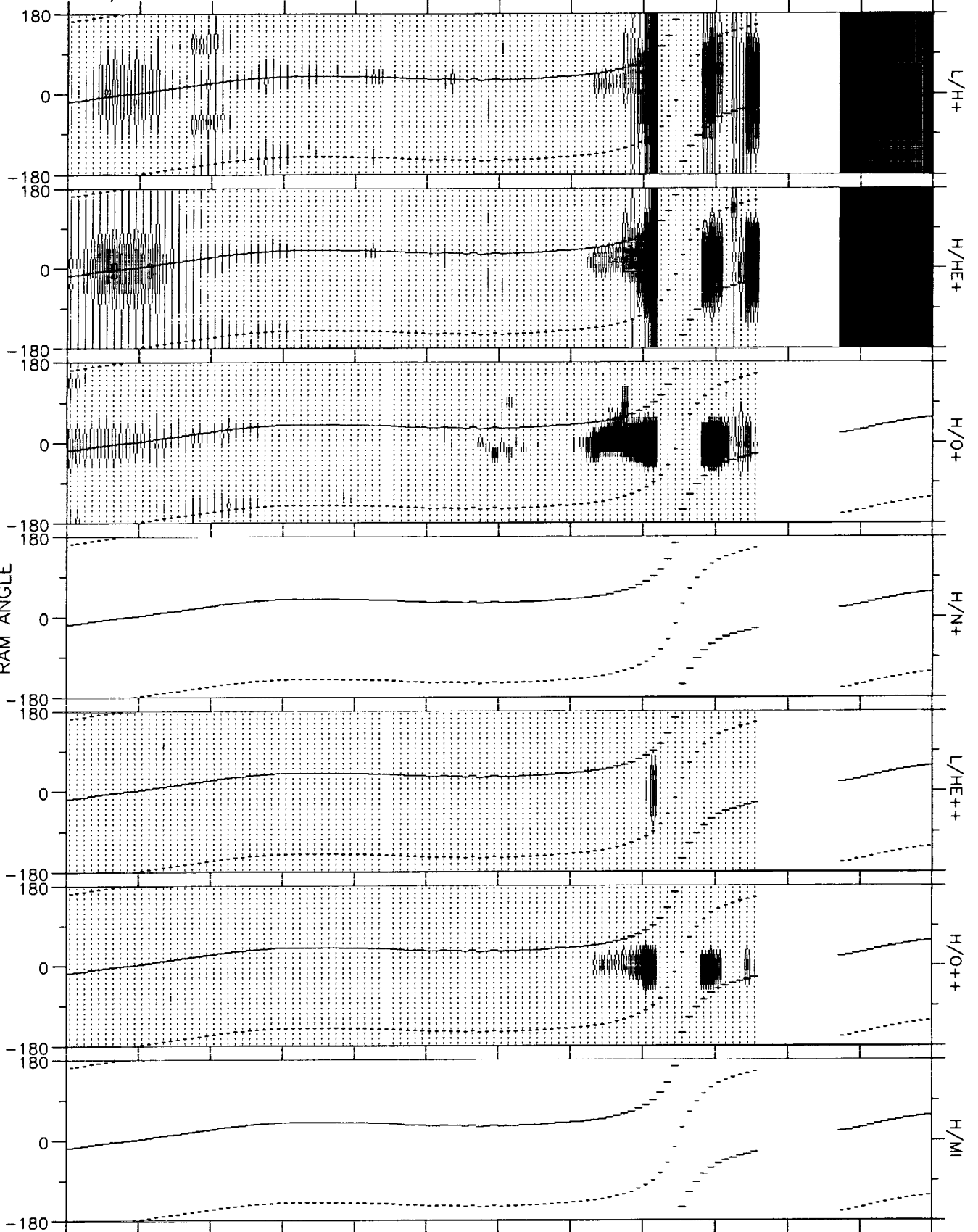
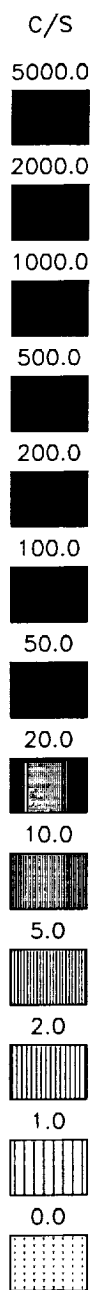
DE RMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Sat Sep 25 16:09:13 1993

82/084 25-MAR 1030:00 - 1830:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Sat Sep 25 16:10:29 1993

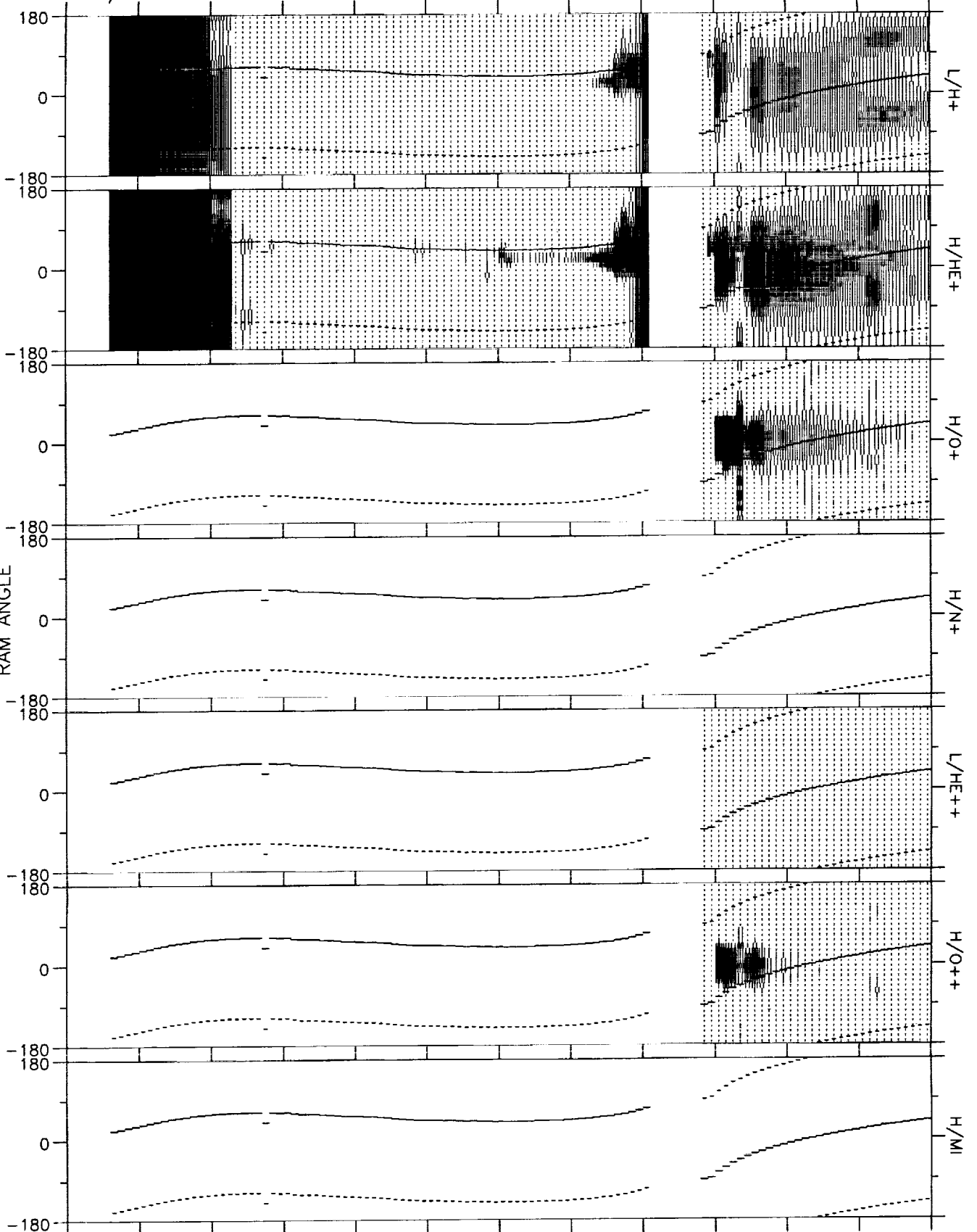
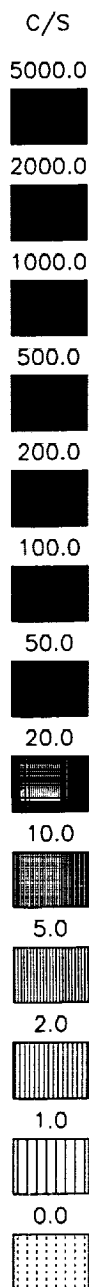
82/084 25-MAR 1715:00 - 0115:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1755	1835	1915	1955	2035	2115	2155	2235	2315	0000	0035	DEGS
RE	4.0	4.4	4.7	4.6	4.3	3.7	2.8	1.5	1.6	0.0	3.8	HHMM
L	4.1	4.4	5.0	5.8	7.2	10.9	42.8	2.6	9.1	0.0	3.9	RE
MLT	22.4	22.6	22.7	22.9	23.2	23.6	1.8	9.8	20.8	0.0	22.4	
MLAT	*****	2.93	15.19	27.15	39.95	55.16	75.26	42.22	*****	0.00	2.29	HRS
INVLAT	60.3	61.7	63.4	65.4	68.1	72.3	81.2	51.9	70.6	0.0	59.5	DEGS

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Sat Sep 25 16:17:46 1993

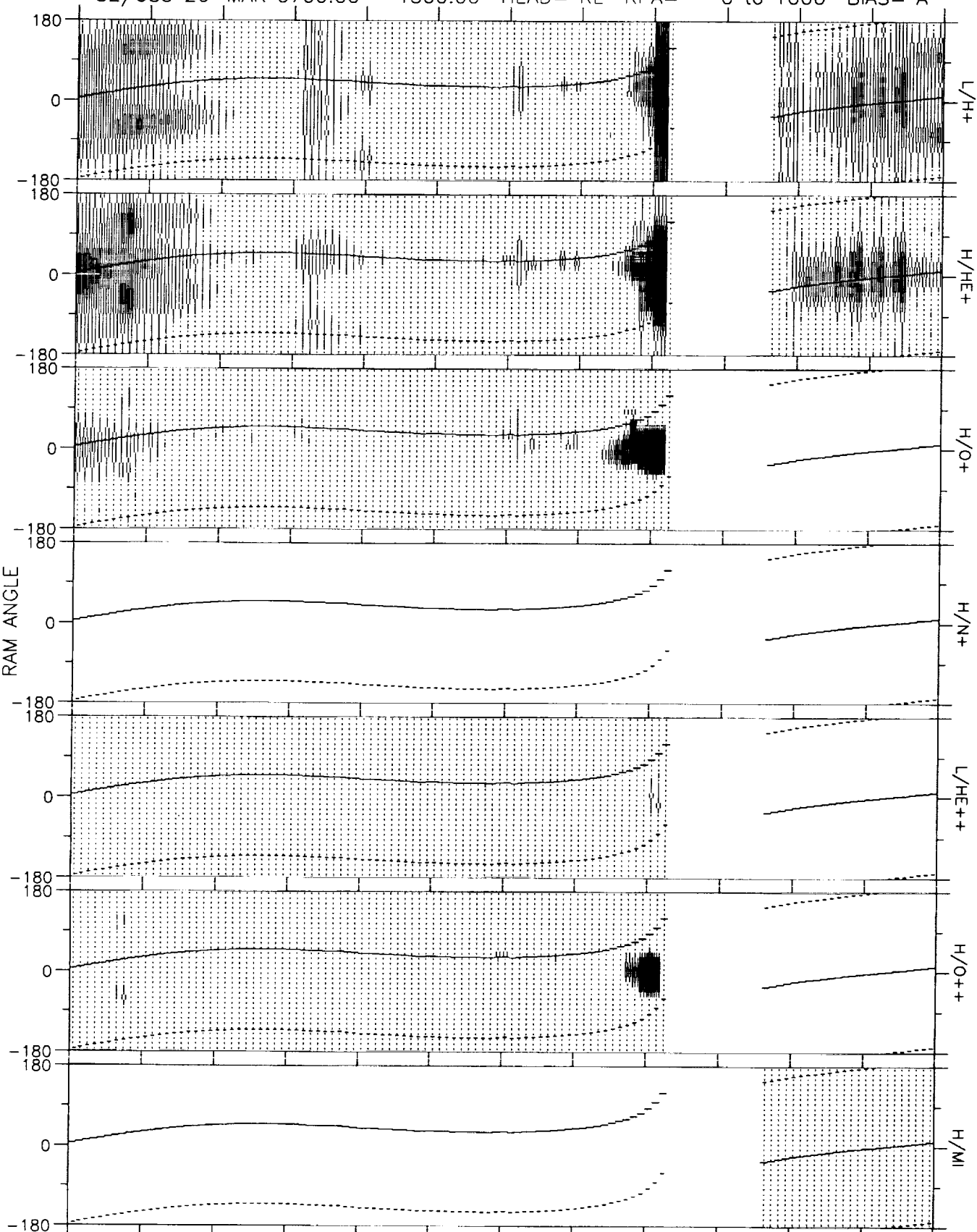
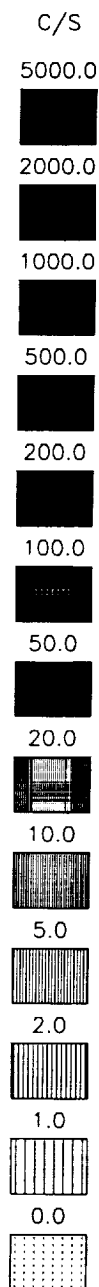
82/085 26-MAR 0000:00 - 0800:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0040	0120	0200	0240	0320	0400	0440	0520	0600	0640	0720	DEGS
RE	3.9	4.4	4.6	4.6	4.4	3.8	2.9	1.7	1.4	2.7	3.7	HHMM
L	4.0	4.9	6.2	8.1	11.5	21.1	-0.0	-0.0	23.6	3.3	3.7	RE
MLT	22.4	22.5	22.5	22.5	22.3	22.0	19.8	11.0	1.6	22.8	22.5	HRS
MLAT	4.38	18.50	30.18	41.03	52.13	65.10	82.80	51.20	****	****	-3.94	DEGS
INVLAT	59.9	63.3	66.4	69.5	72.9	77.4	-0.0	-0.0	78.1	56.4	58.6	

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Sat Sep 25 16:19:53 1993

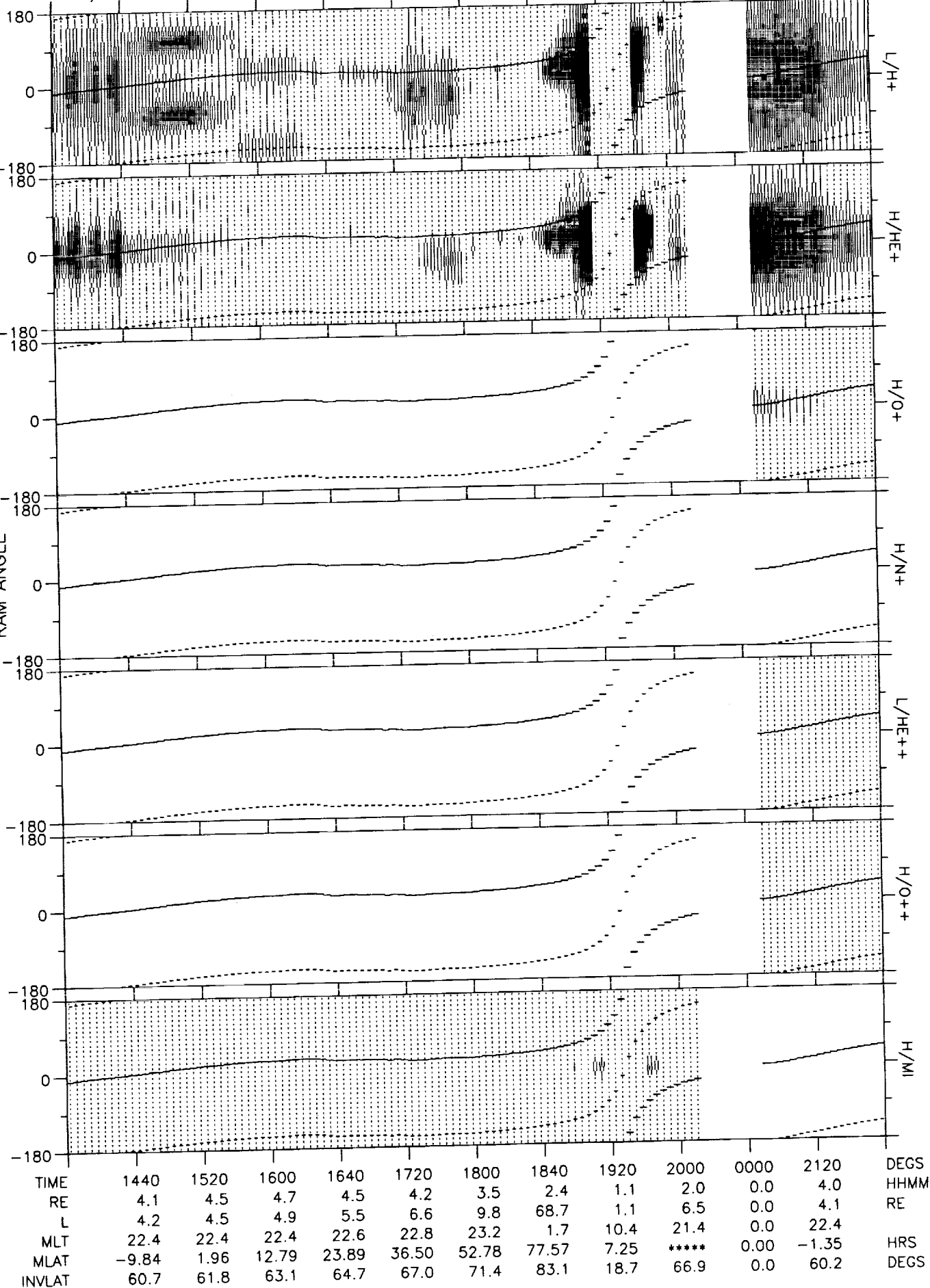
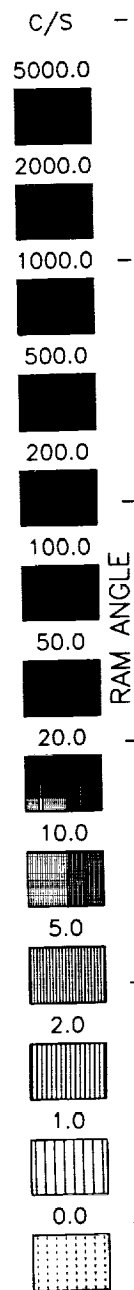
82/085 26-MAR 0700:00 - 1500:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0740	0820	0900	0940	1020	1100	1140	1220	0000	1340	1420	DEGS
RE	4.0	4.5	4.7	4.6	4.3	3.6	2.7	1.3	0.0	3.0	3.8	HHMM
L	4.0	4.7	5.3	6.0	7.0	9.4	30.2	2.4	0.0	4.4	4.1	RE
MLT	22.4	22.3	22.1	21.9	21.8	21.5	20.5	10.8	0.0	22.5	22.4	HRS
MLAT	2.66	12.93	21.43	29.65	38.88	51.09	71.06	45.66	0.00	****	****	DEGS
INVLAT	60.0	62.4	64.3	65.9	67.8	71.0	79.5	49.4	0.0	61.7	60.4	

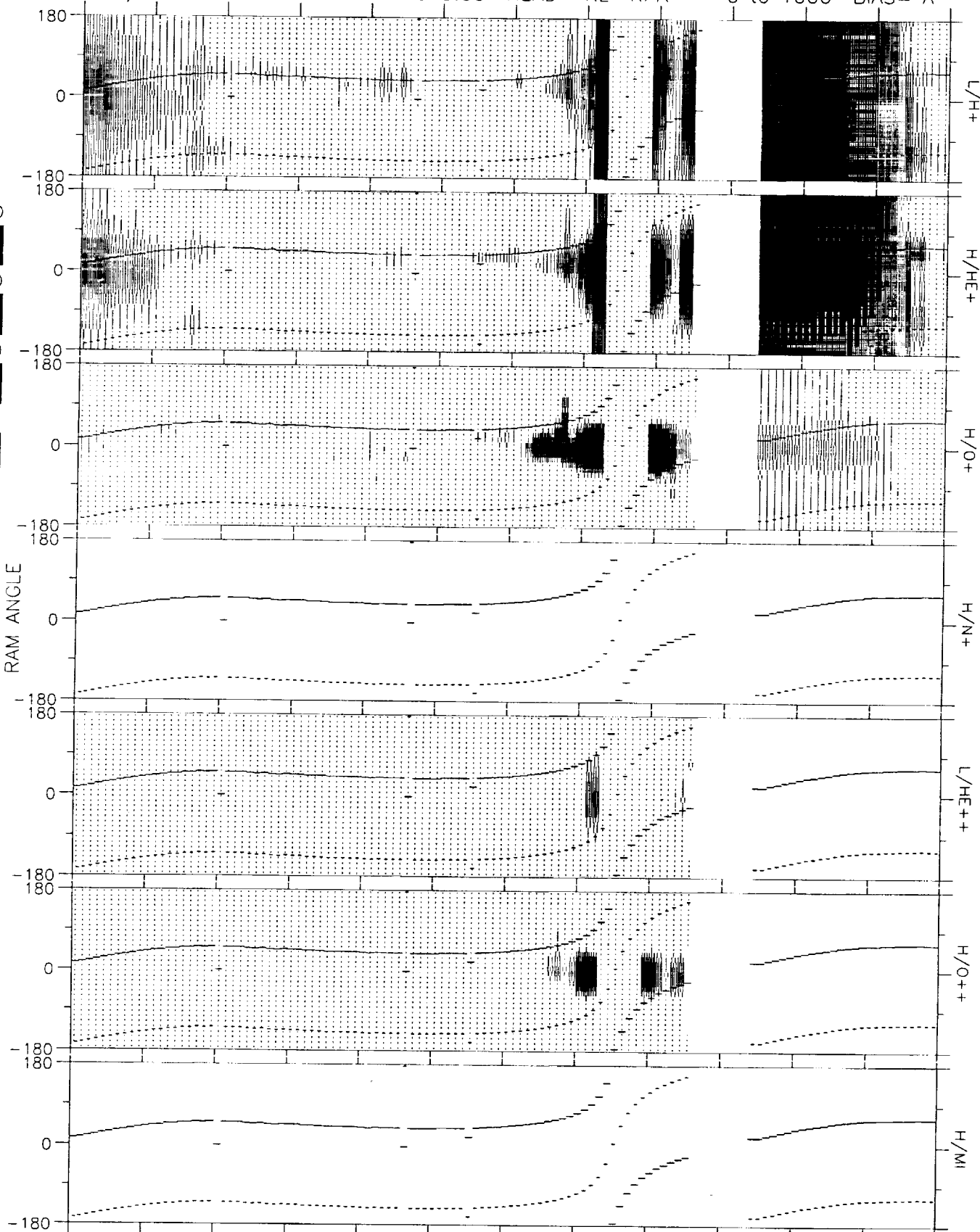
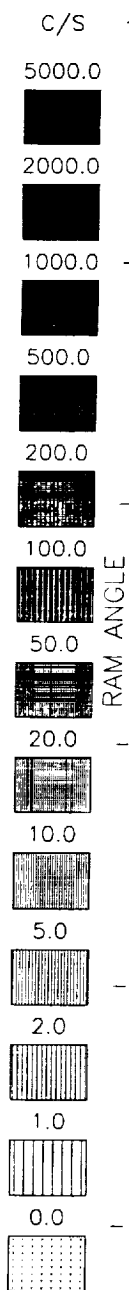
DE RIMS SPIN SUMMARY
SPINRADIAL.ALL (V1.0)
Sat Sep 25 16:21:57 1993

82/085 26-MAR 1400:00 - 2200:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Sat Oct 16 00:14:23 1993

82/085 26-MAR 2115:00 - 0515:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	2155	2235	2315	2355	0035	0115	0155	0235	0000	0355	0435	DEGS
RE	4.4	4.7	4.6	4.3	3.8	2.9	1.6	1.5	0.0	3.7	4.3	HHMM
L	4.6	5.5	6.8	9.3	16.7	100.0	3.3	12.0	0.0	3.8	4.7	RE
MLT	22.6	22.7	22.8	23.0	23.2	1.7	10.1	22.1	0.0	22.4	22.3	
MLAT	11.22	23.80	35.81	48.41	63.23	83.24	44.25	*****	0.00	2.82	16.05	HRS
INVLAT	62.2	64.7	67.4	70.8	75.8	85.1	56.7	73.2	0.0	59.0	62.6	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Sat Sep 25 16:26:26 1993

82/086 27-MAR 0330:00 - 1130:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

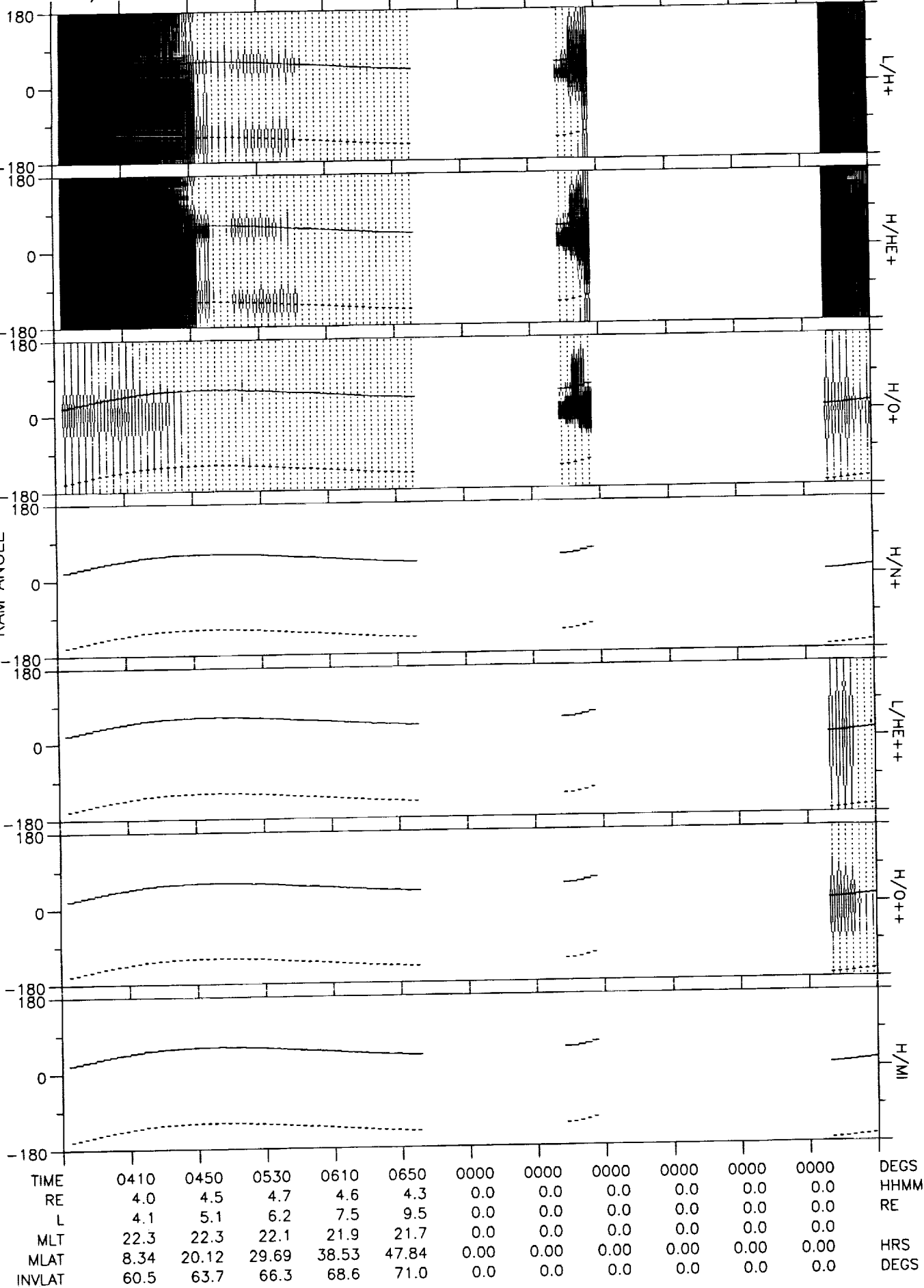
5.0

2.0

1.0

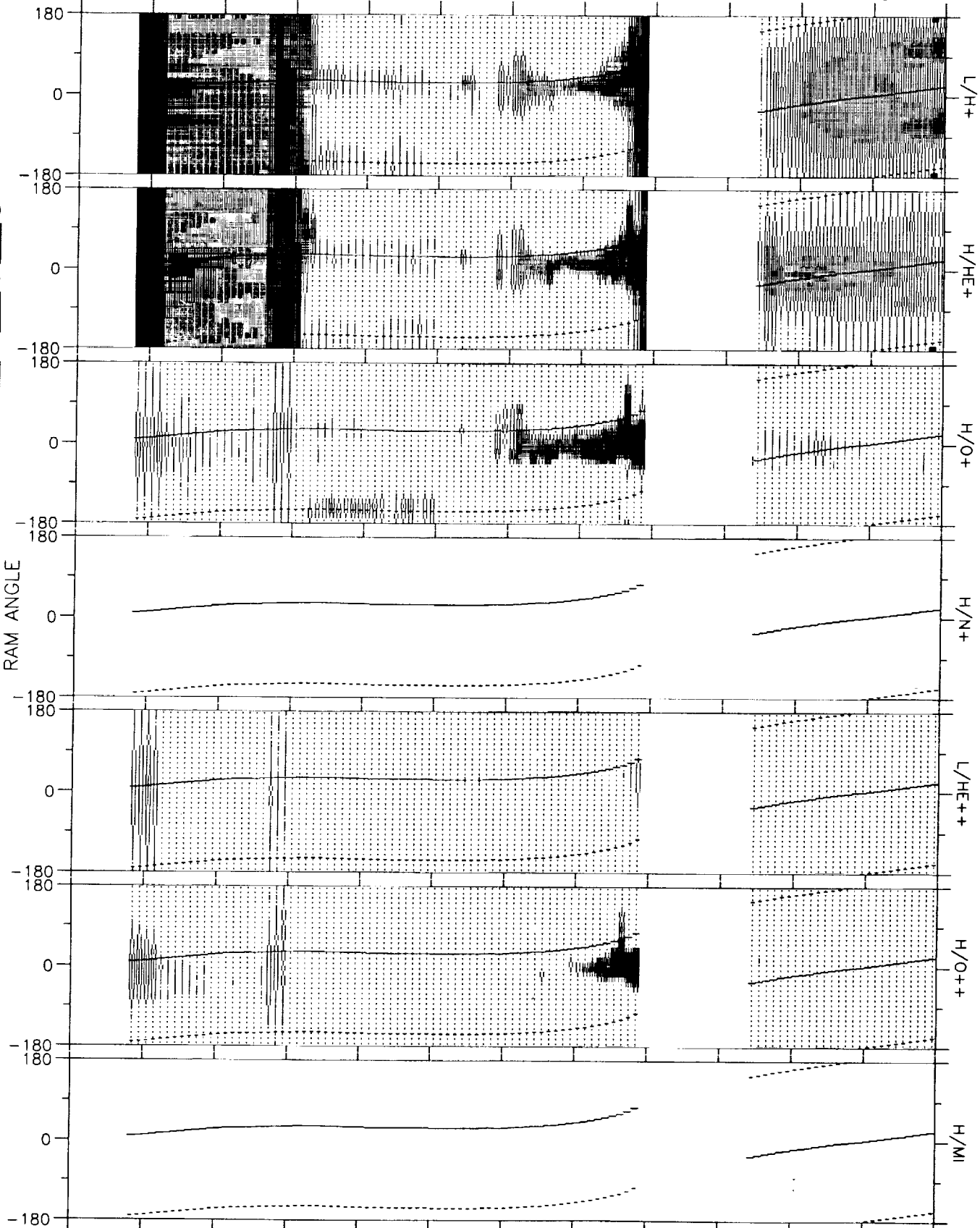
0.0

RAM ANGLE



DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Sat Sep 25 16:28:27 1993

82/086 27-MAR 1030:00 - 1830:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1110	1150	1230	1310	1350	1430	1510	0000	0000	1710	1750	DEGS
RE	4.1	4.5	4.7	4.6	4.2	3.5	2.5	0.0	0.0	3.1	4.0	HHMM
L	4.1	4.5	4.9	5.4	6.2	8.6	44.4	0.0	0.0	4.2	4.1	RE
MLT	22.3	22.2	22.1	22.1	22.1	22.2	22.5	0.0	0.0	22.1	22.3	
MLAT	-5.55	4.70	13.87	23.31	34.31	49.13	74.67	0.00	0.00	*****	*****	HRS
INVLAT	60.4	61.8	63.1	64.5	66.4	70.1	81.4	0.0	0.0	60.8	60.4	DEGS

DE RUS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Sat Sep 25 16:30:56 1993

82/086 27-MAR 1715:00 - 0115:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

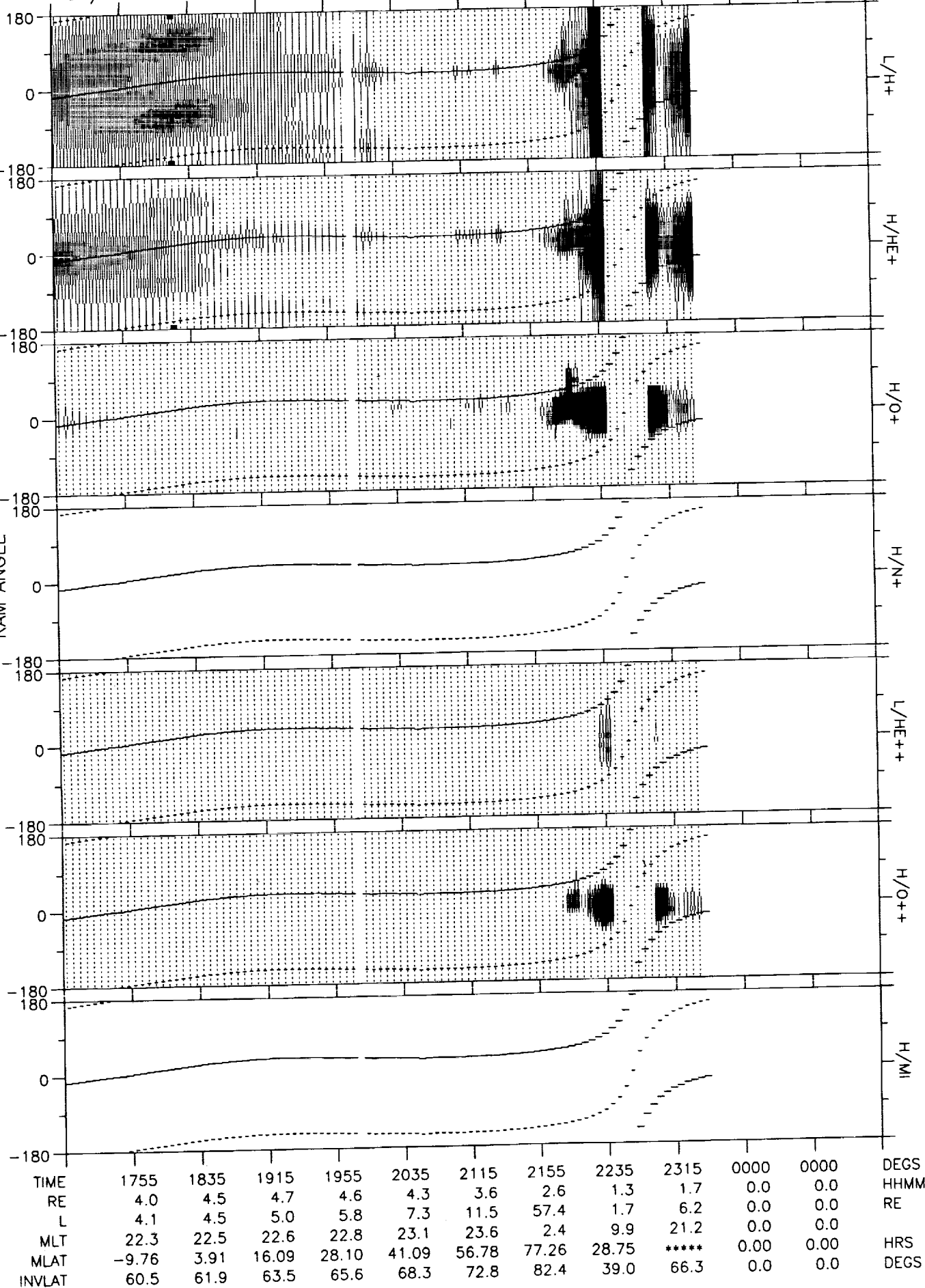
5.0

2.0

1.0

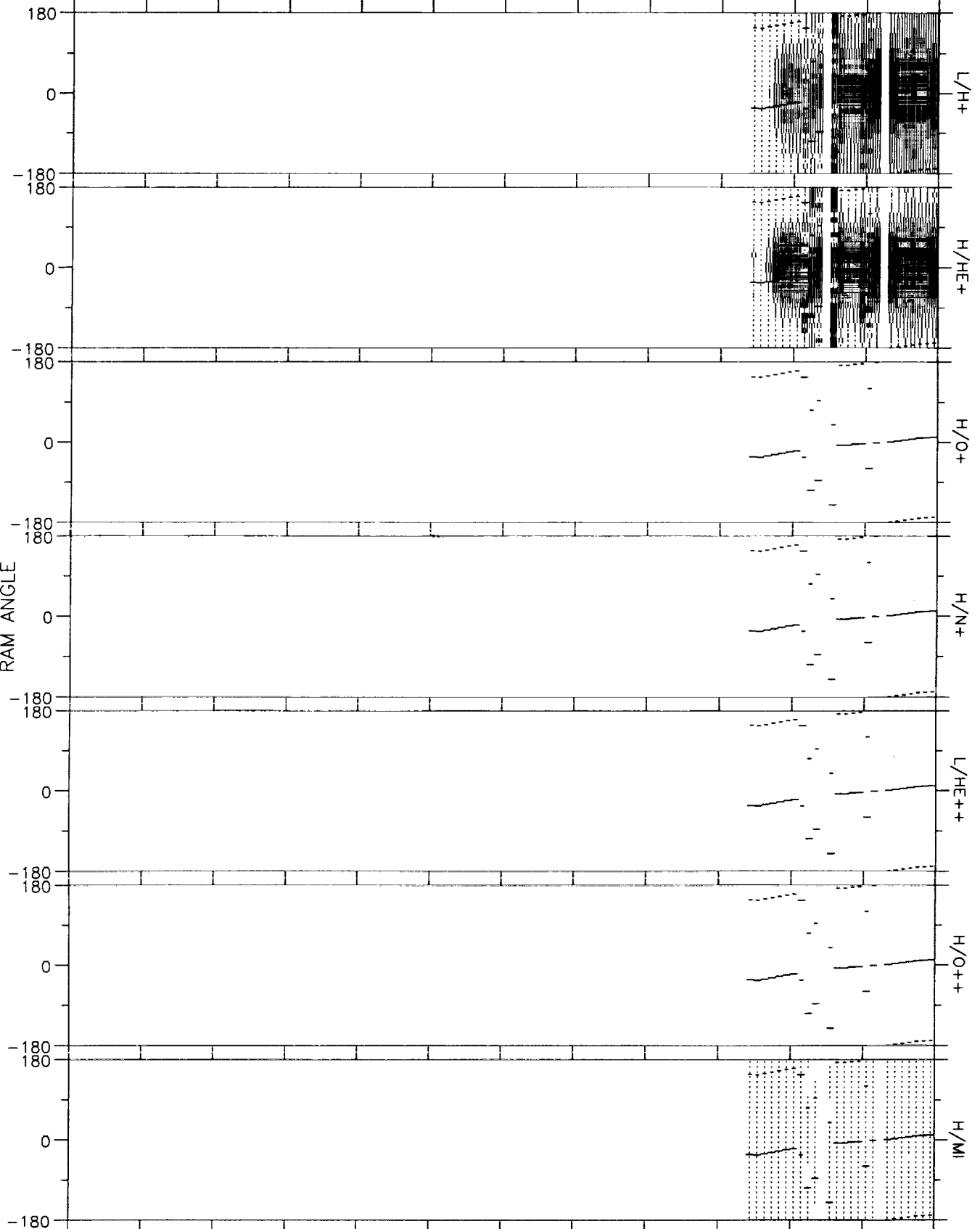
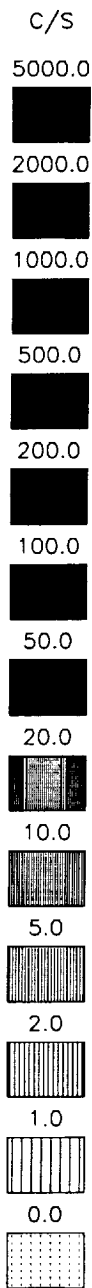
0.0

RAM ANGLE



DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Sat Sep 25 16:39:40 1993

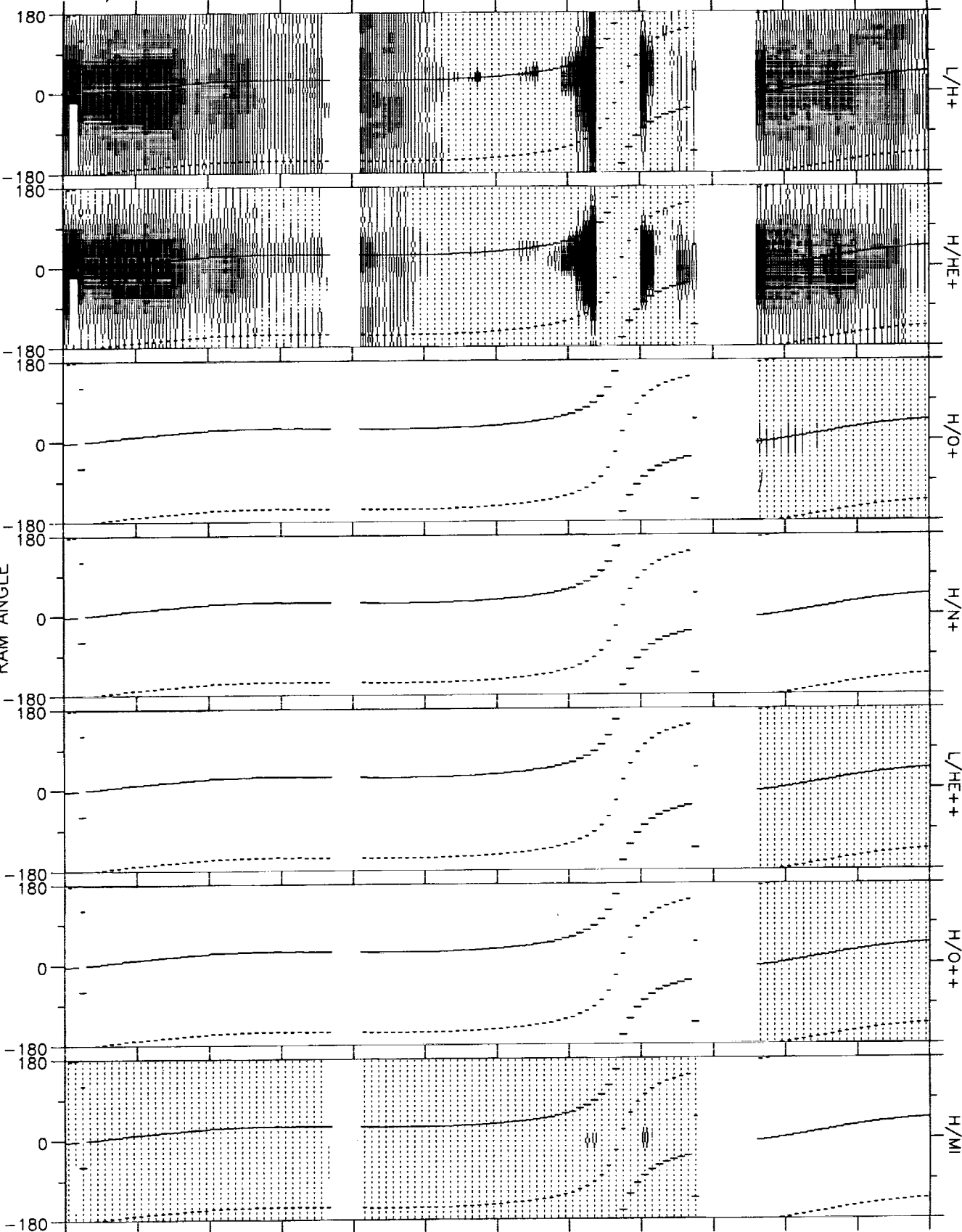
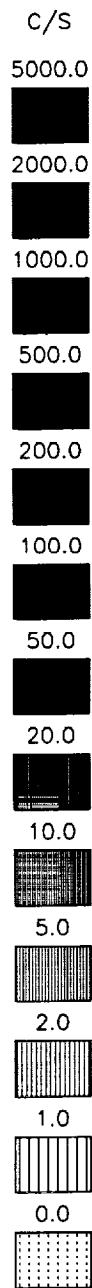
82/087 28-MAR 0700:00 - 1500:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	1340	1420	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.9	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.1	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.4	22.2	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****	****	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.4	60.5	DEGS

DE RMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Sat Sep 25 16:40:57 1993

82/087 28-MAR 1415:00 - 2215:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1455	1535	1615	0000	1735	1815	1855	1935	0000	2055	2135	DEGS
RE	4.4	4.6	4.6	0.0	3.8	3.0	1.7	1.3	0.0	3.6	4.3	HHMM
L	4.3	4.7	5.1	0.0	7.5	15.6	13.2	16.0	0.0	3.9	4.3	RE
MLT	22.2	22.3	22.4	0.0	22.8	23.6	8.6	13.4	0.0	22.2	22.4	HRS
MLAT	-4.42	6.73	17.57	0.00	43.30	63.14	68.57	****	0.00	****	5.53	DEGS
INVLAT	61.3	62.4	63.8	0.0	68.5	75.4	74.0	75.5	0.0	59.4	61.3	

DE RMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Sat Sep 25 16:43:03 1993

82/087 28-MAR 2030:00 - 0430:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

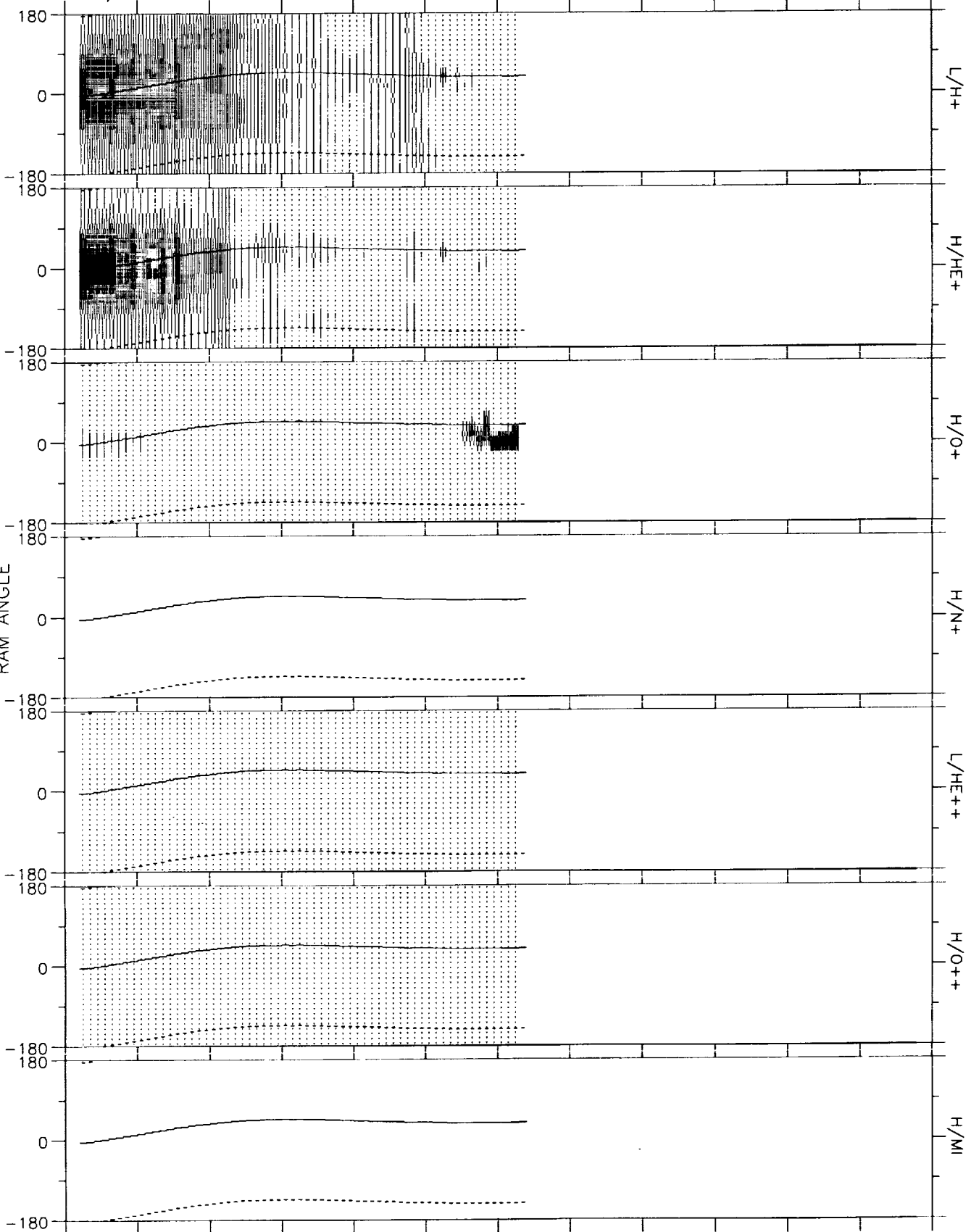
5.0

2.0

1.0

0.0

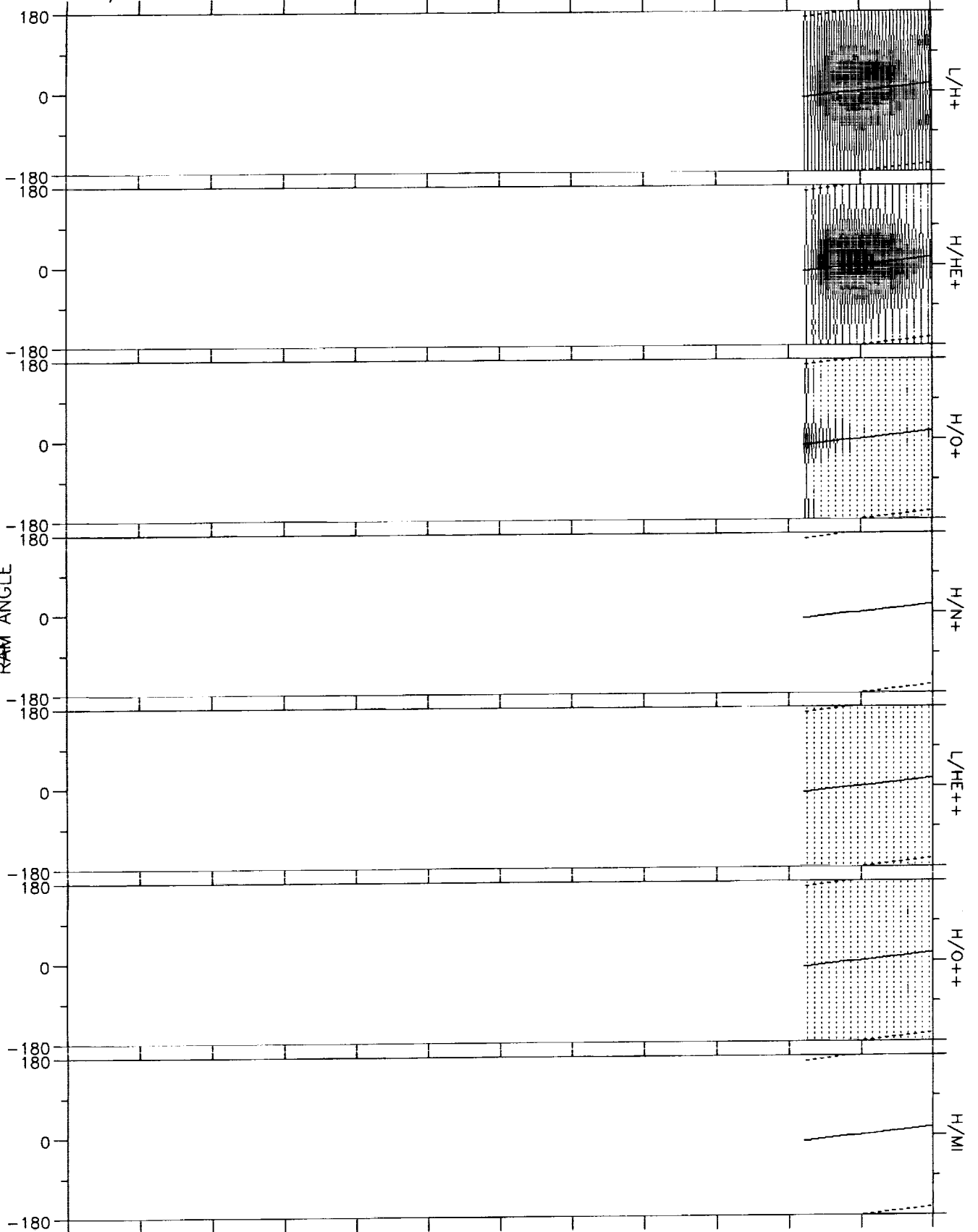
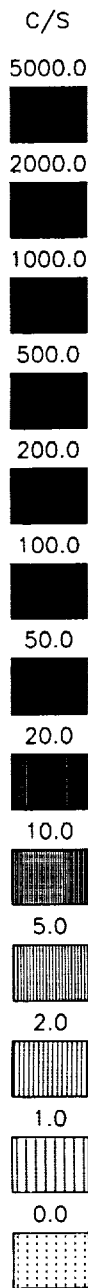
RAM ANGLE



TIME	2110	2150	2230	2310	2350	0030	0000	0000	0000	0000	0000	DEGS
RE	3.9	4.4	4.7	4.6	4.3	3.8	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.0	4.6	5.4	6.7	9.1	16.1	0.0	0.0	0.0	0.0	0.0	RE
MLT	22.3	22.4	22.6	22.7	22.9	23.1	0.0	0.0	0.0	0.0	0.0	
MLAT	-3.92	10.69	23.26	35.27	47.85	62.66	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	60.0	62.1	64.6	67.3	70.6	75.6	0.0	0.0	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Sat Sep 25 16:44:46 1993

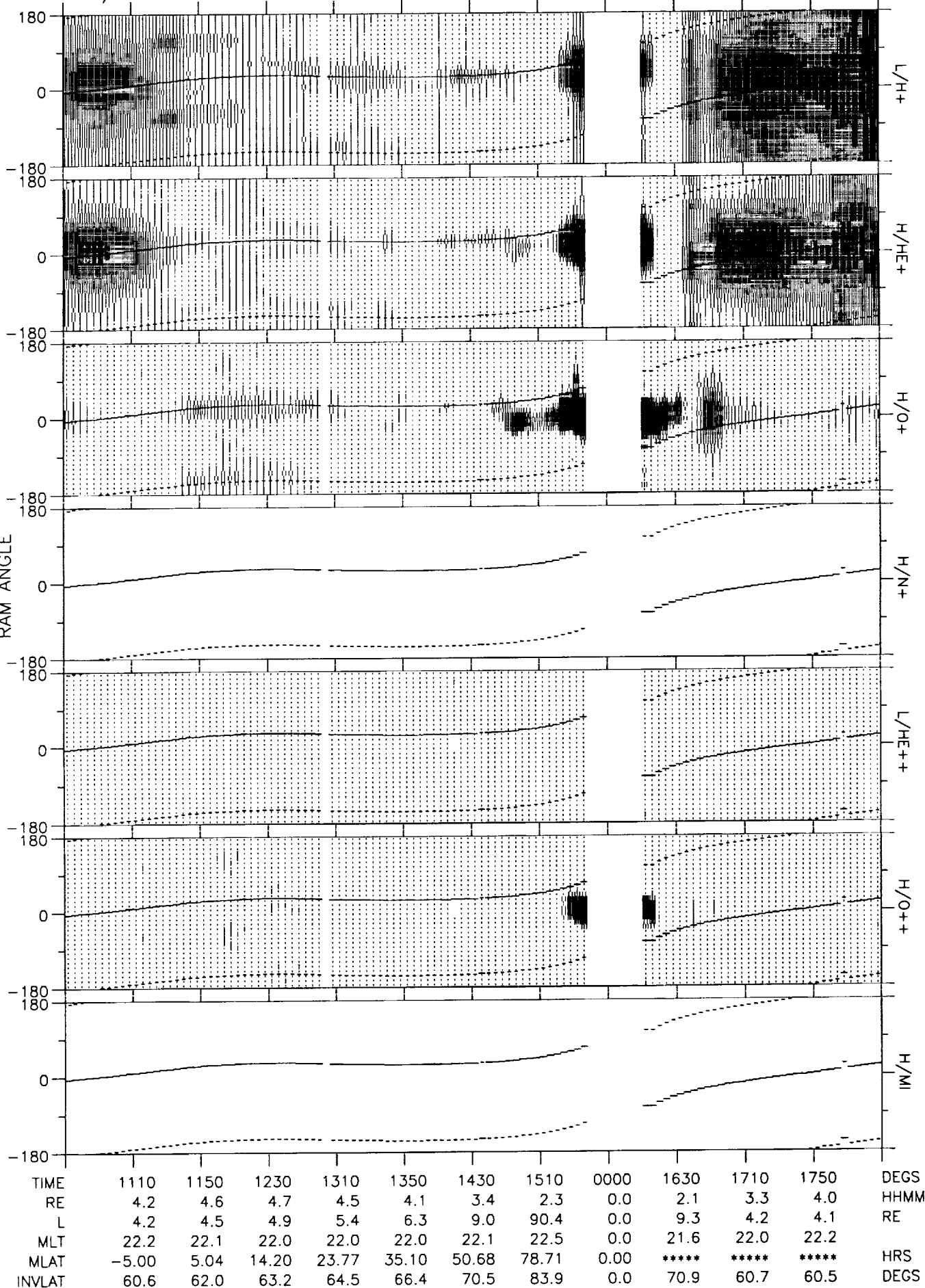
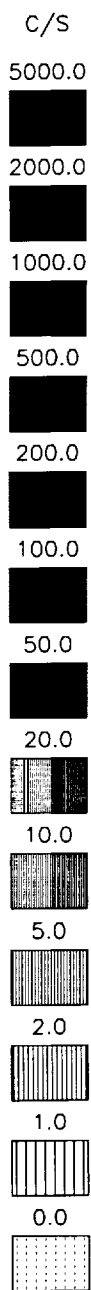
82/088 29-MAR 0330:00 - 1130:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	1050	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.3	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0	DEGS

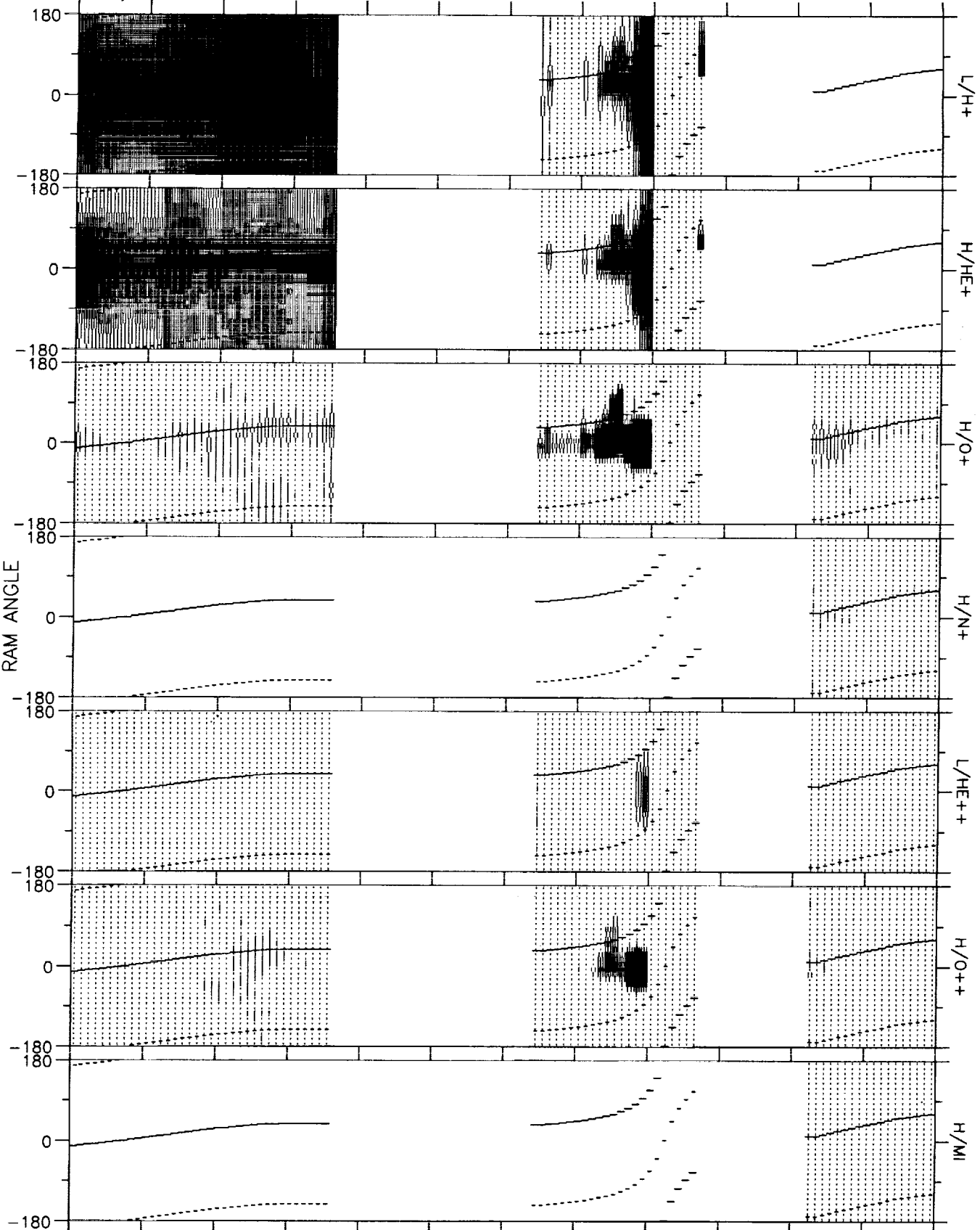
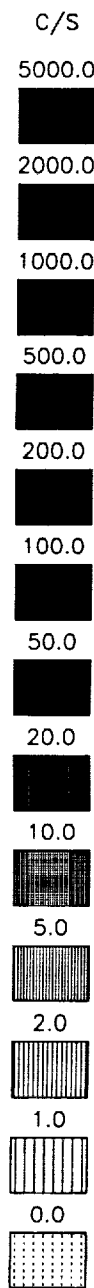
DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Set Sep 25 16:46:03 1993

82/088 29-MAR 1030:00 - 1830:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Sat Sep 25 16:58:01 1993

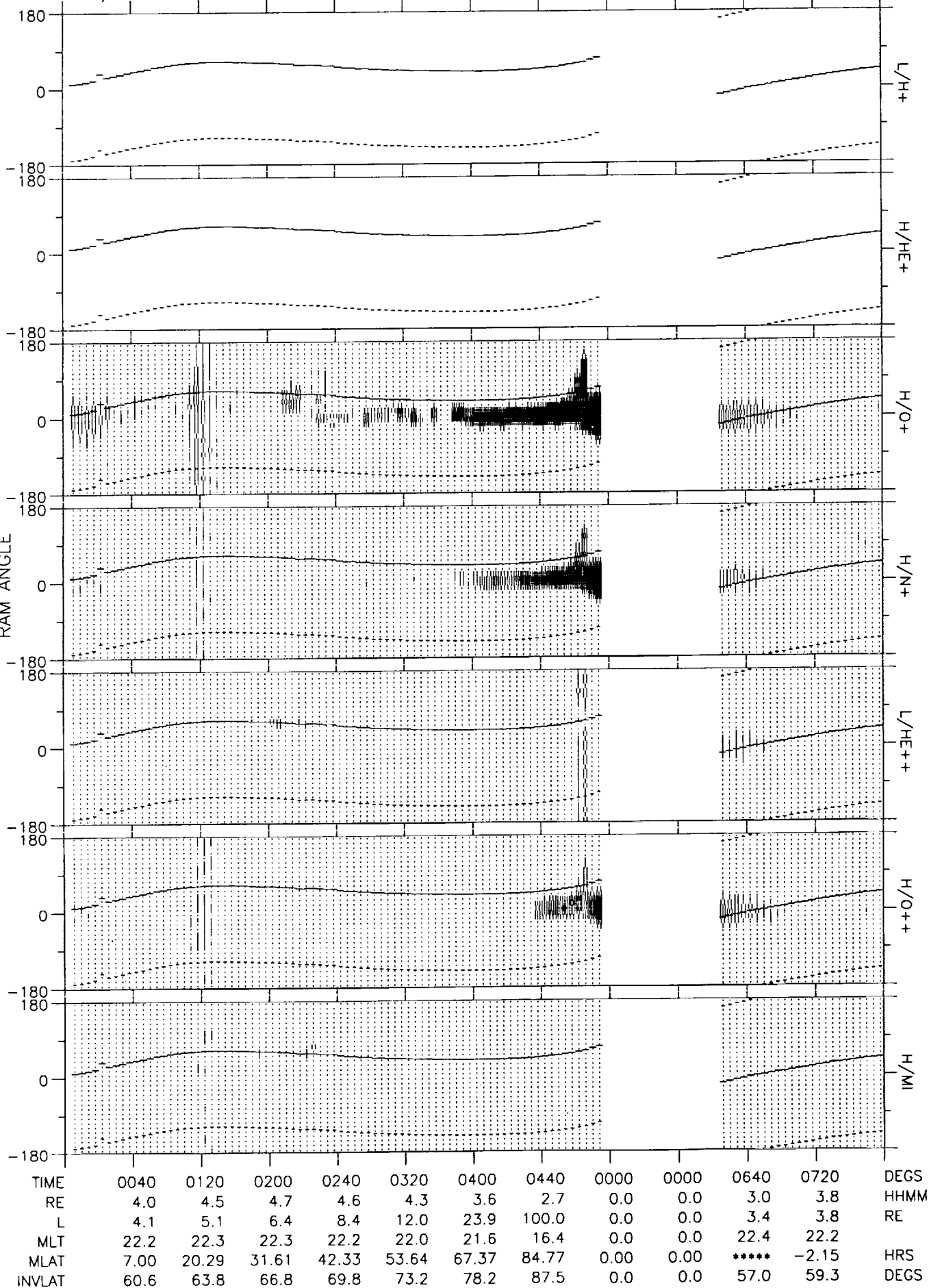
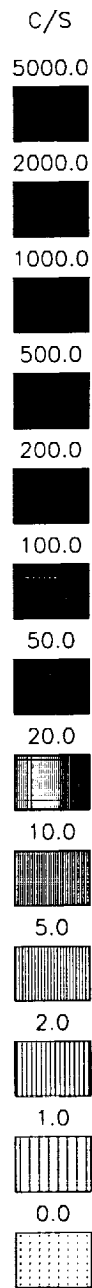
82/088 29-MAR 1715:00 - 0115:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1755	1835	1915	0000	0000	0000	2155	2235	0000	0000	0035	DEGS
RE	4.1	4.5	4.7	0.0	0.0	0.0	2.5	1.2	0.0	0.0	3.9	HHMM
L	4.2	4.5	5.1	0.0	0.0	0.0	77.9	1.2	0.0	0.0	4.0	RE
MLT	22.2	22.4	22.5	0.0	0.0	0.0	3.5	10.1	0.0	0.0	22.2	
MLAT	-8.48	4.92	17.03	0.00	0.00	0.00	78.75	11.20	0.00	0.00	5.12	HRS
INVLAT	60.7	62.0	63.7	0.0	0.0	0.0	83.5	23.4	0.0	0.0	60.2	DEGS

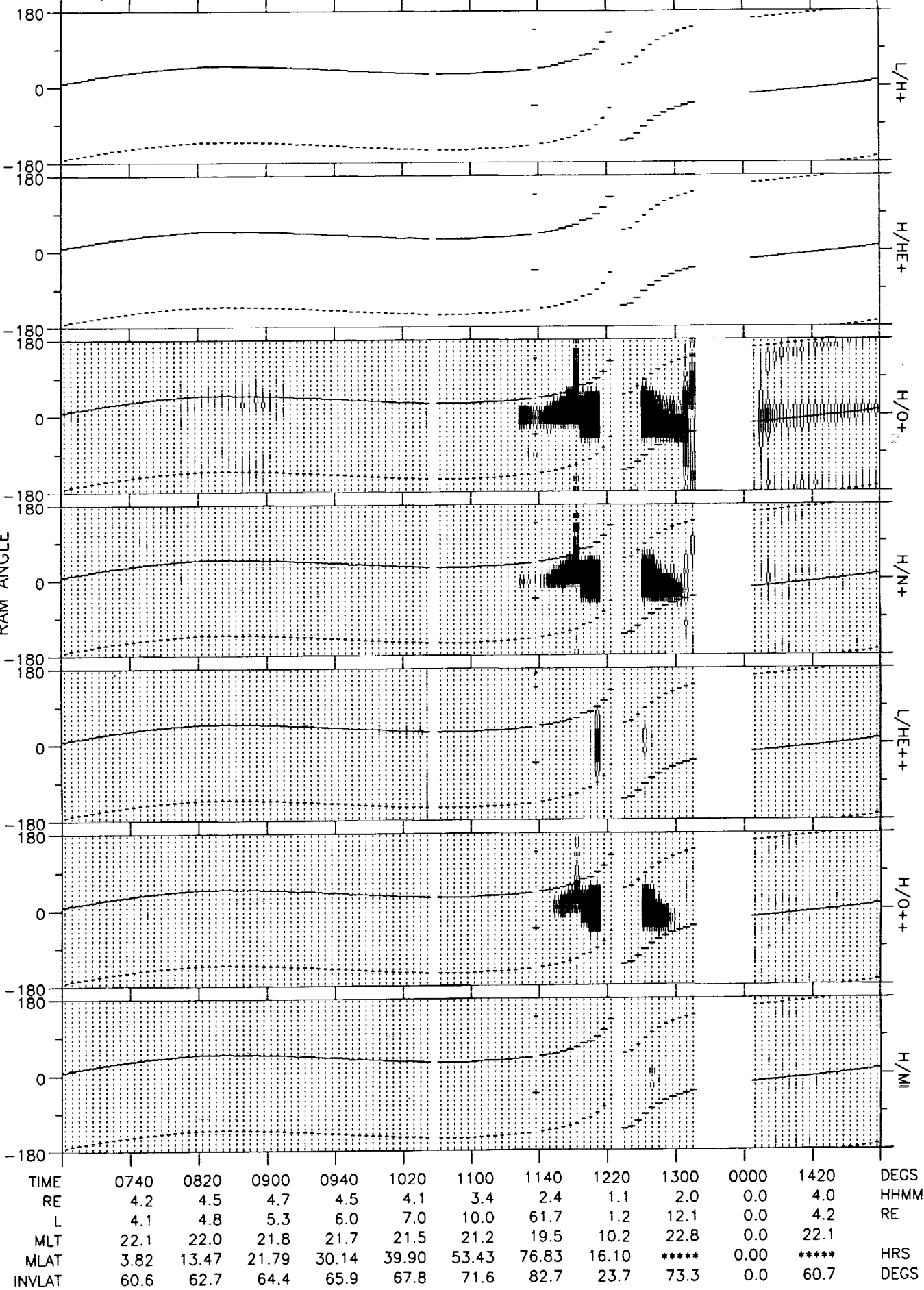
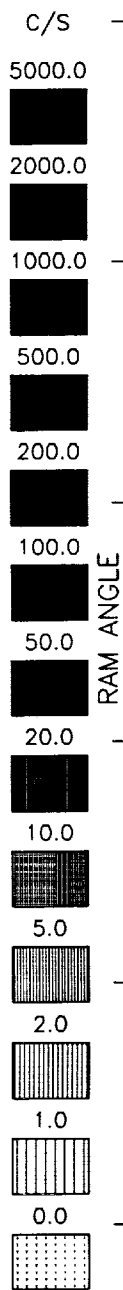
DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Sat Sep 25 17:00:08 1993

82/089 30-MAR 0000:00 - 0800:00 HEAD= RL RPA= 0 to 1000 BIAS= A



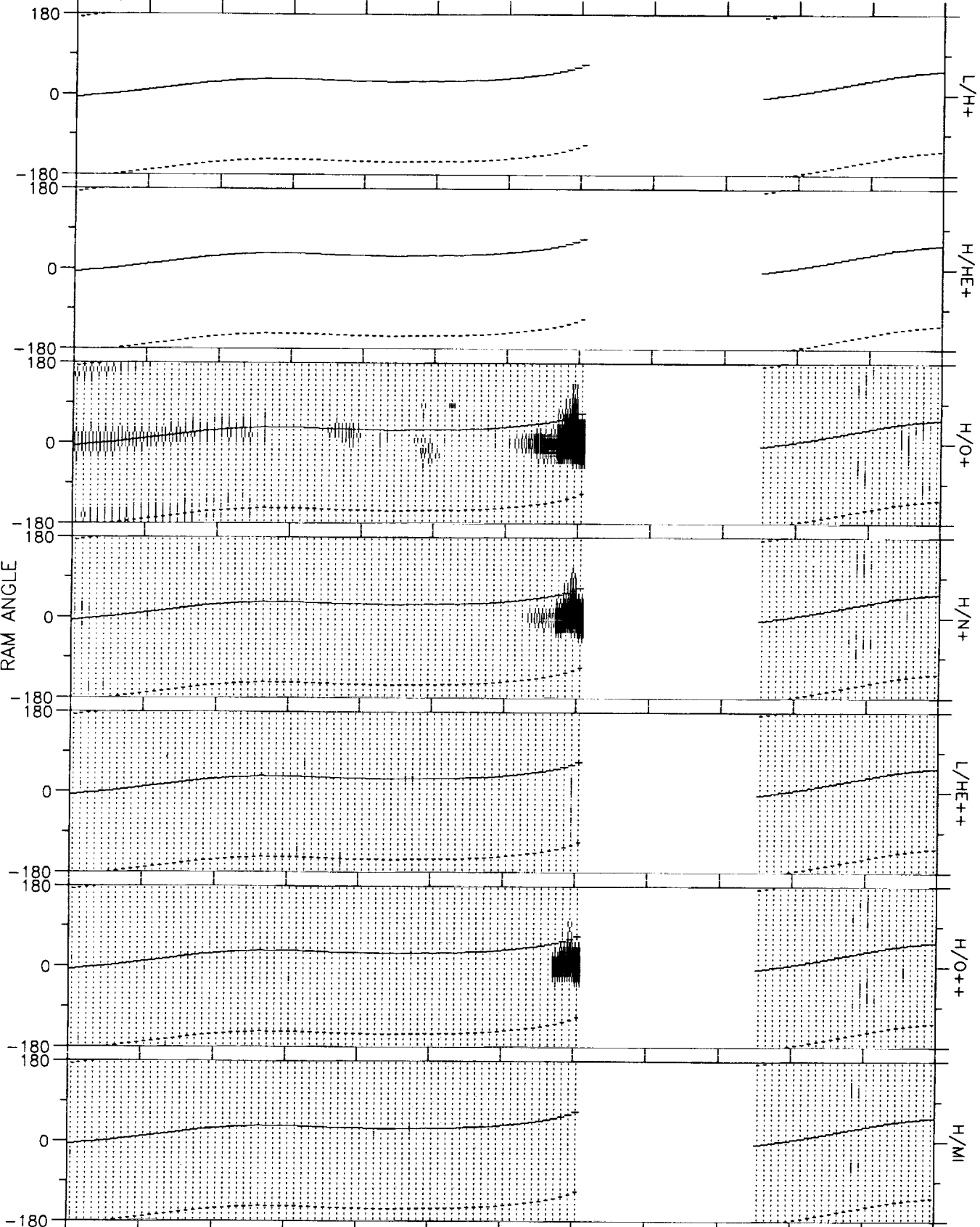
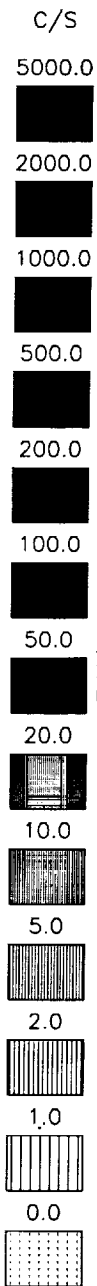
DE RMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Sat Sep 25 17:02:00 1993

82/089 30-MAR 0700:00 - 1500:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN_RADIALALL (V1.0)
Sat Sep 25 17:03:58 1993

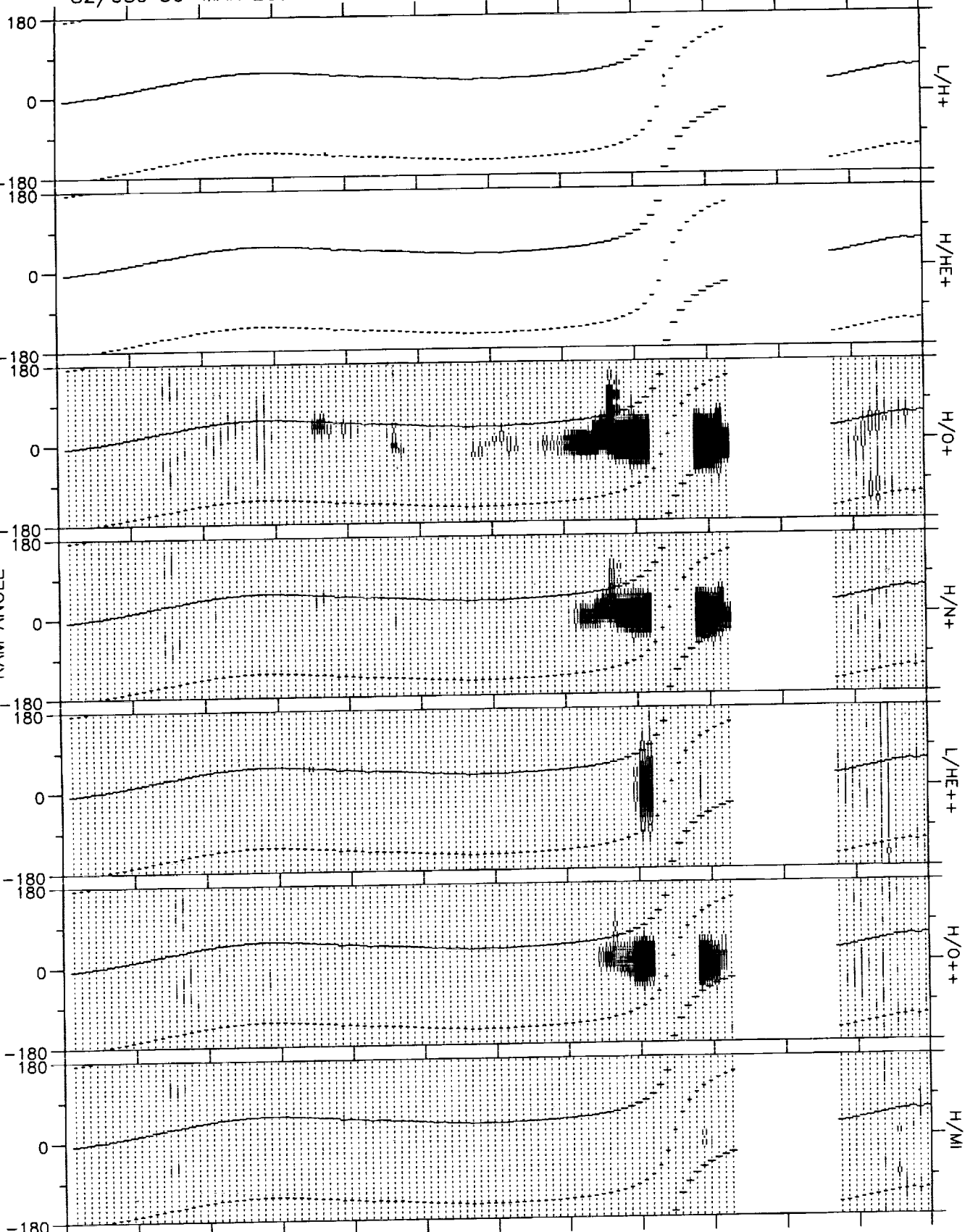
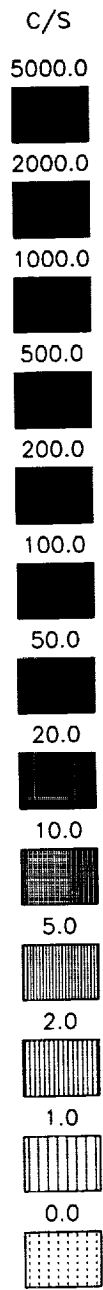
82/089 30-MAR 1415:00 - 2215:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1455	1535	1615	1655	1735	1815	1855	0000	0000	2055	2135	DEGS
RE	4.4	4.7	4.6	4.3	3.8	2.8	1.6	0.0	0.0	3.7	4.3	HHMM
L	4.4	4.7	5.2	5.9	7.7	18.3	6.1	0.0	0.0	3.9	4.4	RE
MLT	22.1	22.1	22.3	22.4	22.7	23.6	9.0	0.0	0.0	22.1	22.3	
MLAT	-3.66	7.38	18.28	30.20	44.73	65.70	59.71	0.00	0.00	-8.76	6.75	HRS
INVLAT	61.4	62.5	63.8	65.7	68.8	76.5	66.0	0.0	0.0	59.7	61.5	DEGS

DE RMS SPIN SUMMARY
SPIN RADIAL (V1.0)
Sat Sep 25 17:05:47 1993

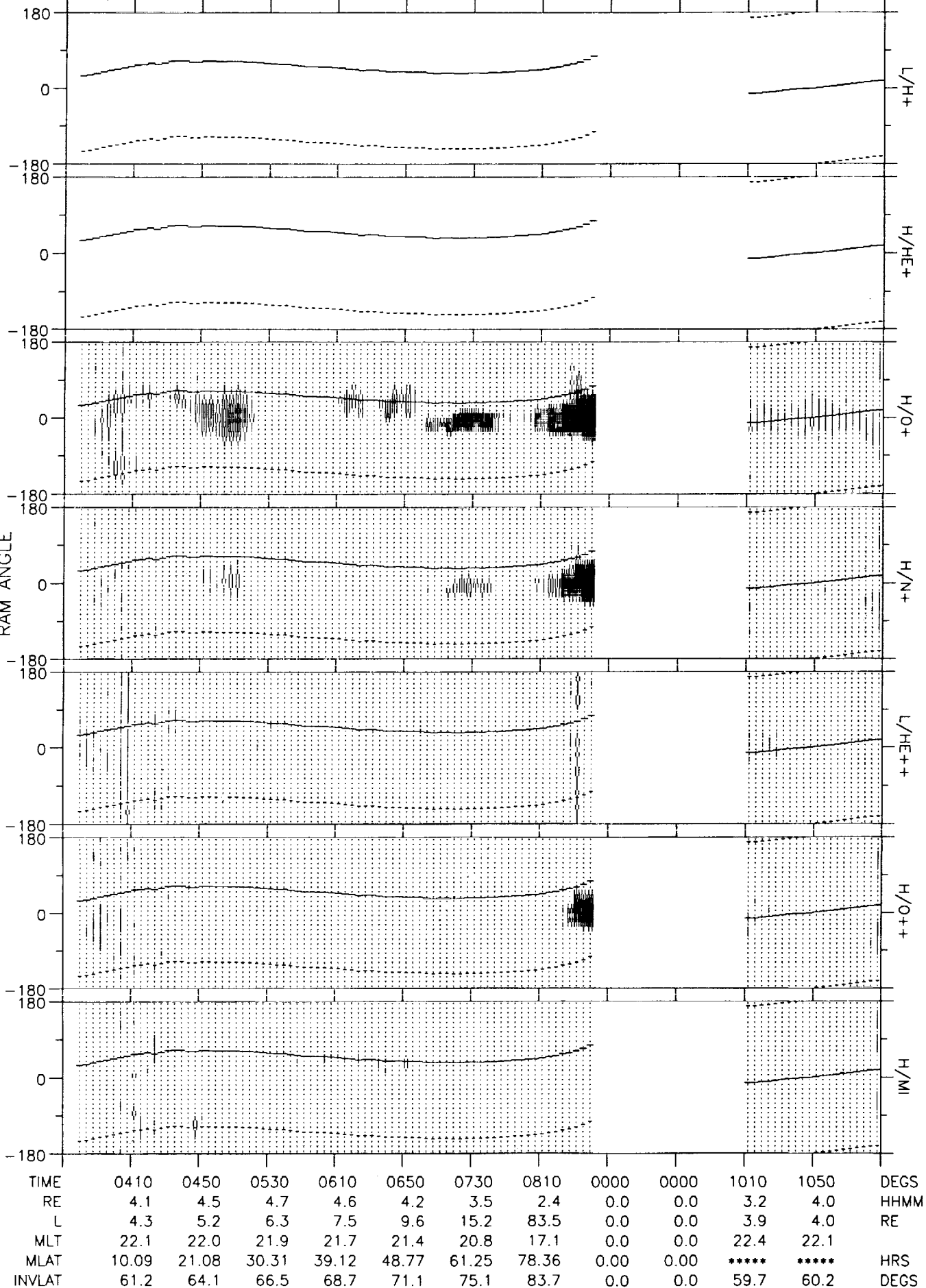
82/089 30-MAR 2030:00 - 0430:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	2110	2150	2230	2310	2350	0030	0110	0150	0230	0000	0350	DEGS
RE	4.0	4.5	4.7	4.6	4.3	3.7	2.7	1.4	1.6	0.0	3.8	HHMM
L	4.1	4.7	5.5	6.8	9.4	17.4	100.0	2.1	6.6	0.0	3.9	RE
MLT	22.2	22.3	22.5	22.6	22.7	23.0	2.7	10.0	22.0	0.0	22.1	
MLAT	-2.49	11.76	24.20	36.20	48.93	64.19	84.91	33.06	****	0.00	3.25	HRS
INVLAT	60.3	62.4	64.8	67.5	70.9	76.1	86.2	46.1	67.1	0.0	59.4	DEGS

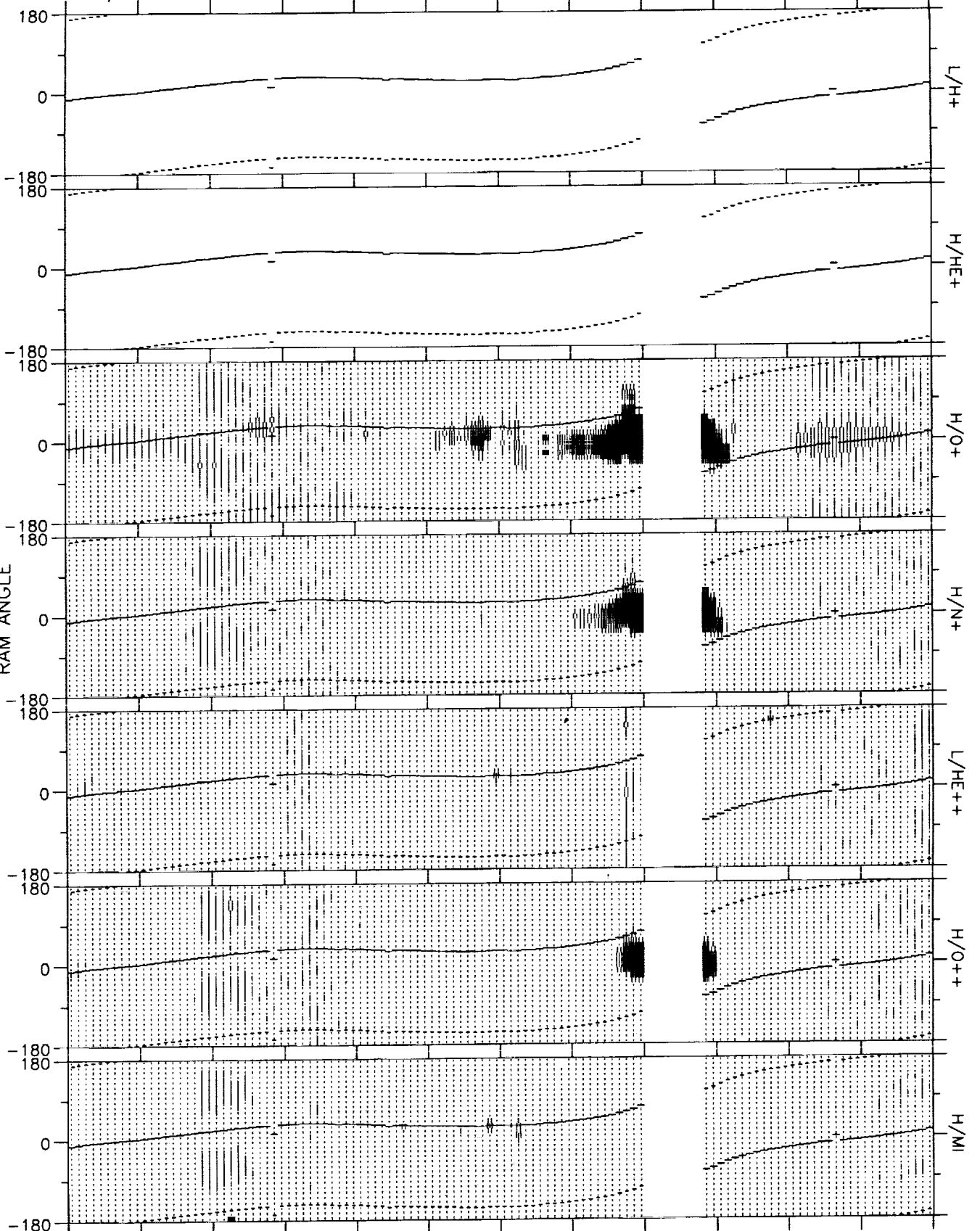
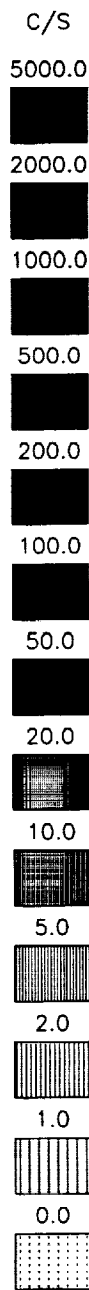
DE RIMS SPIN SUMMARY
SPIN-RADIAL (V1.0)
Sat Sep 25 17:09:47 1993

82/090 31-MAR 0330:00 - 1130:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Sat Sep 25 17:11:39 1993

82/090 31-MAR 1015:00 - 1815:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1055	1135	1215	1255	1335	1415	1455	0000	1615	1655	1735	DEGS
RE	4.0	4.5	4.7	4.6	4.2	3.6	2.6	0.0	1.8	3.0	3.9	HHMM
L	4.1	4.4	4.8	5.2	5.9	7.7	23.3	0.0	35.1	4.4	4.1	RE
MLT	22.1	22.0	21.9	21.9	21.9	21.9	22.2	0.0	20.8	21.8	22.0	HRS
MLAT	-8.67	1.90	11.13	20.52	31.26	45.43	68.62	0.00	*****	*****	*****	DEGS
INVLAT	60.4	61.6	62.8	64.0	65.7	68.8	78.0	0.0	80.3	61.7	60.5	

DE RIMS SPIN SUMMARY
SPIN/RADIAL (V1.0)
Sat Sep 25 17:13:42 1993

82/090 31-MAR 1700:00 - 0100:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

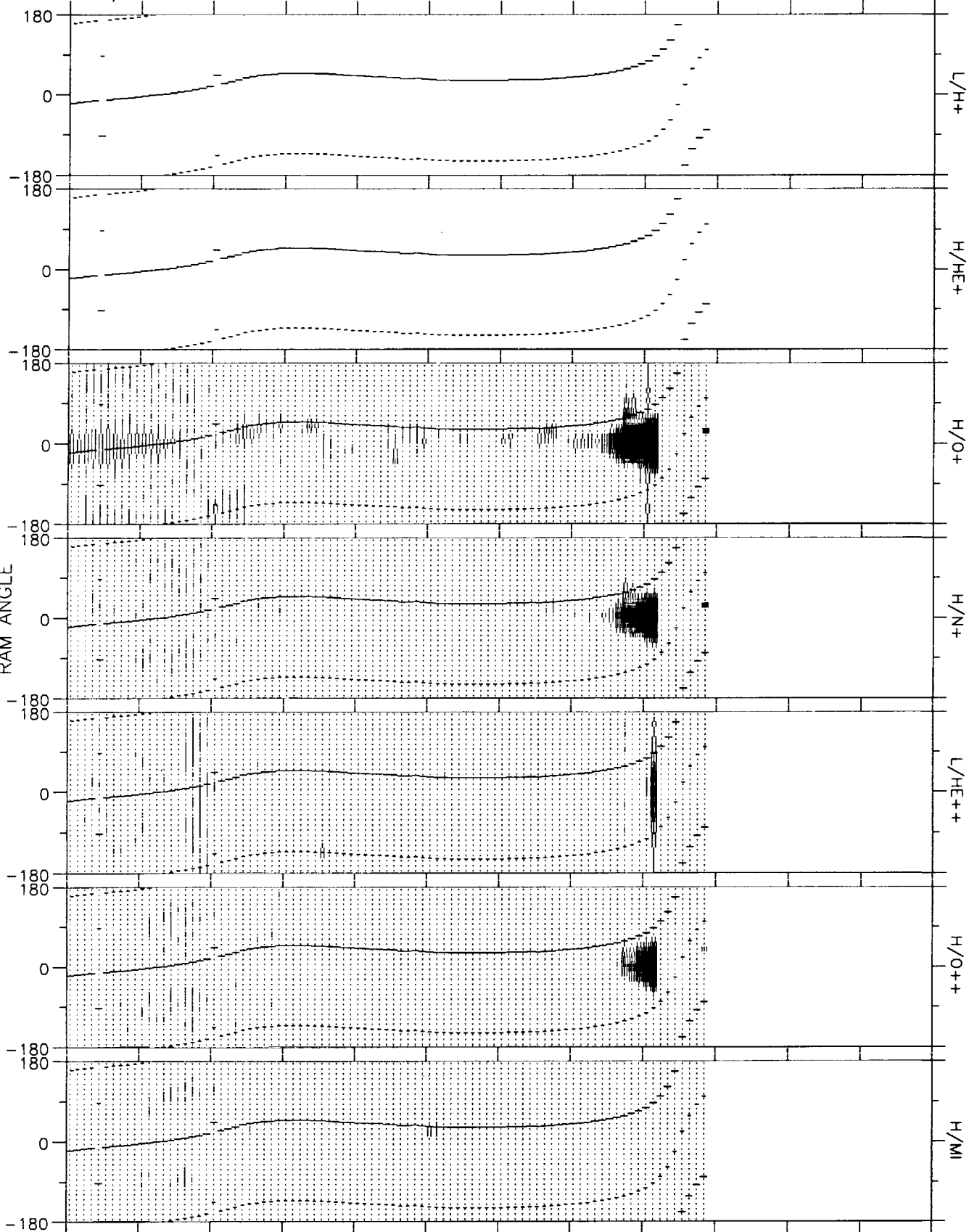
5.0

2.0

1.0

0.0

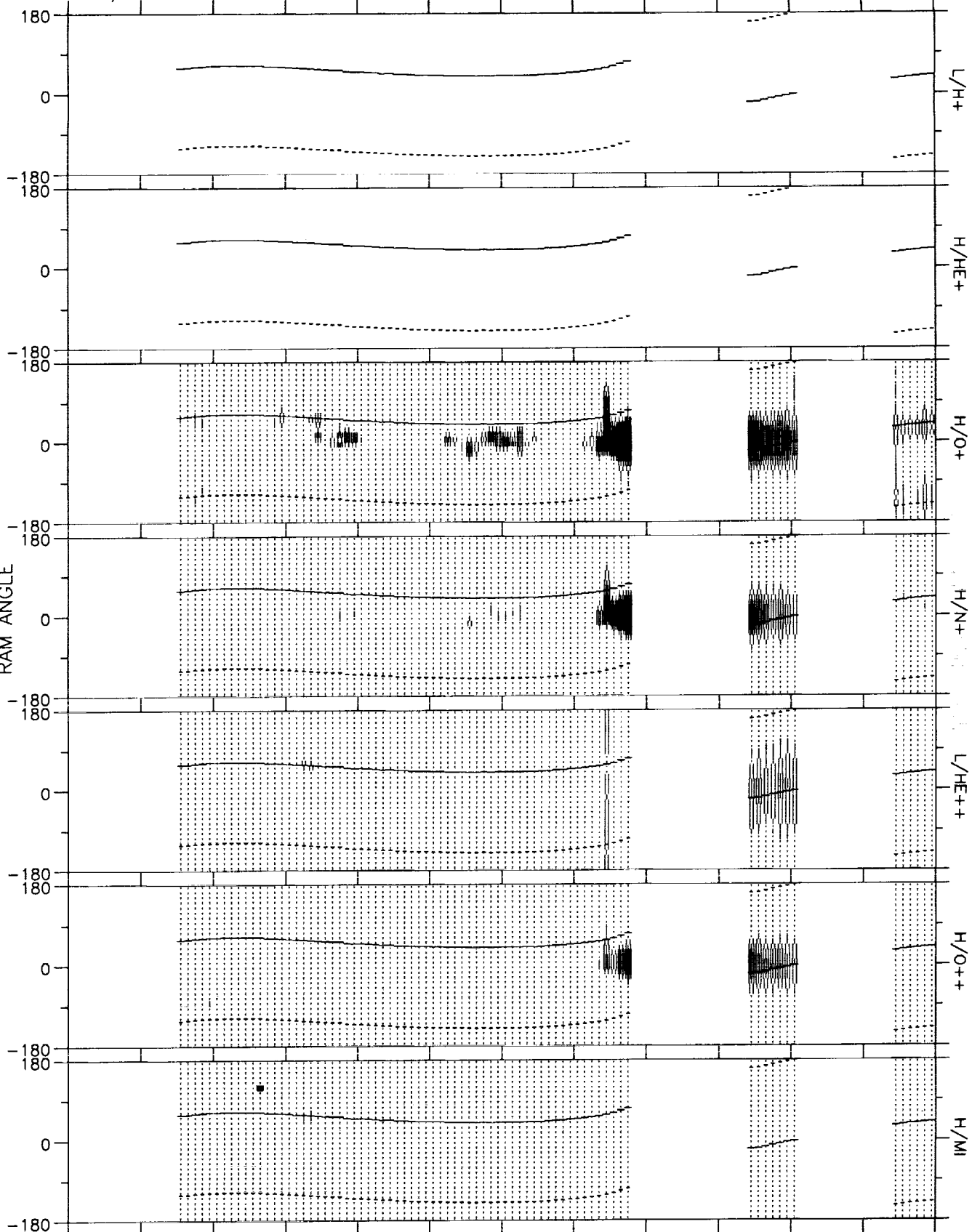
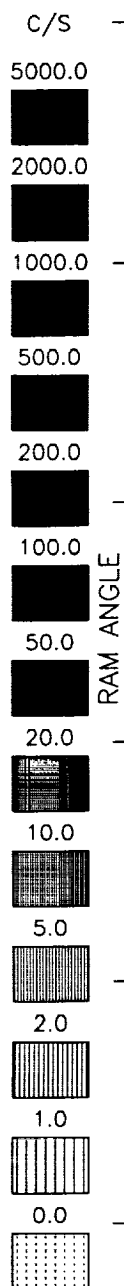
RAM ANGLE



TIME	1740	1820	1900	1940	2020	2100	2140	2220	0000	0000	0000	DEGS
RE	3.9	4.4	4.7	4.6	4.3	3.7	2.8	1.5	0.0	0.0	0.0	HHMM
L	4.1	4.4	4.9	5.6	6.8	10.0	35.1	3.0	0.0	0.0	0.0	RE
MLT	22.0	22.2	22.4	22.5	22.8	23.2	1.0	9.4	0.0	0.0	0.0	
MLAT	*****	1.15	13.48	25.47	38.28	53.49	73.96	45.08	0.00	0.00	0.00	HRS
INVLAT	60.5	61.6	63.2	65.0	67.5	71.6	80.3	54.3	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPINRADIALCALL (V1.0)
Sat Sep 25 17:15:35 1993

82/091 01-APR 0000:00 - 0800:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0120	0200	0240	0320	0400	0440	0000	0000	0640	0000	DEGS
RE	0.0	4.5	4.7	4.6	4.2	3.5	2.5	0.0	0.0	3.1	0.0	HHMM
L	0.0	5.2	6.6	8.6	12.3	26.0	-0.0	0.0	0.0	3.4	0.0	RE
MLT	0.0	22.1	22.1	22.1	21.9	21.4	14.3	0.0	0.0	22.3	0.0	HRS
MLAT	0.00	21.12	32.27	42.98	54.40	68.60	83.74	0.00	0.00	****	0.00	DEGS
INVLAT	0.0	64.1	67.0	70.0	73.5	78.7	-0.0	0.0	0.0	57.3	0.0	

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Sat Sep 25 17:17:24 1993

82/091 01-APR 0700:00 - 1500:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

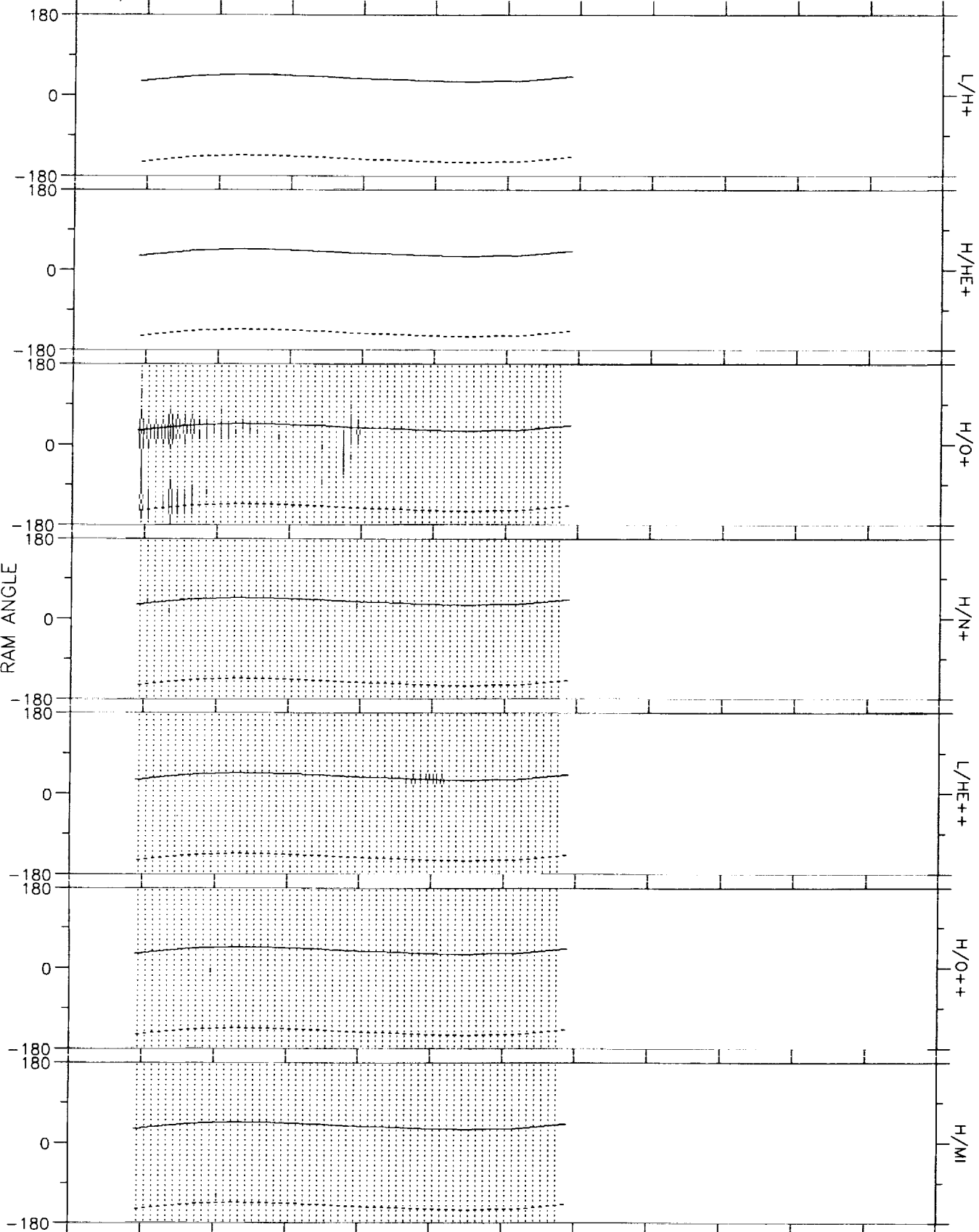
5.0

2.0

1.0

0.0

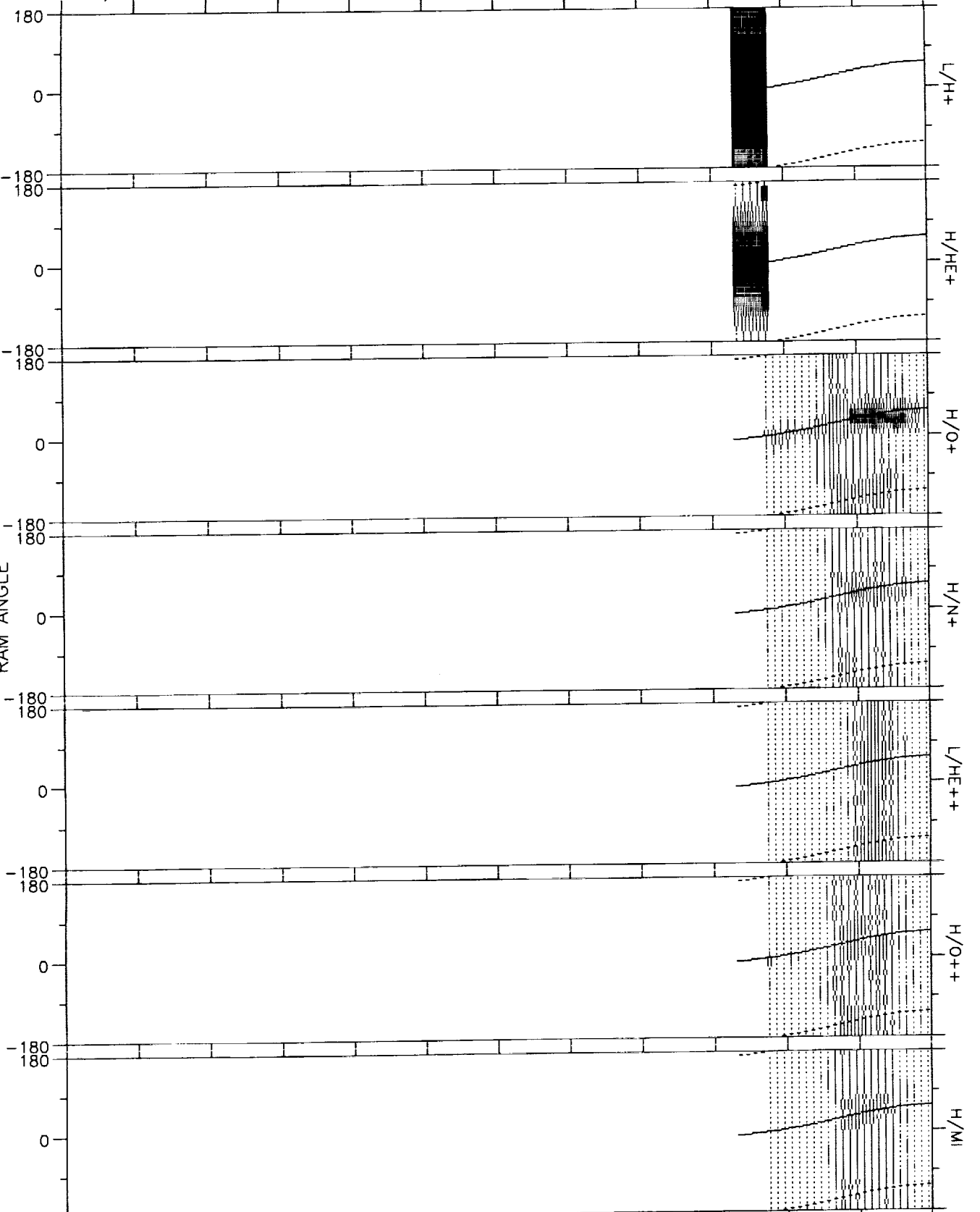
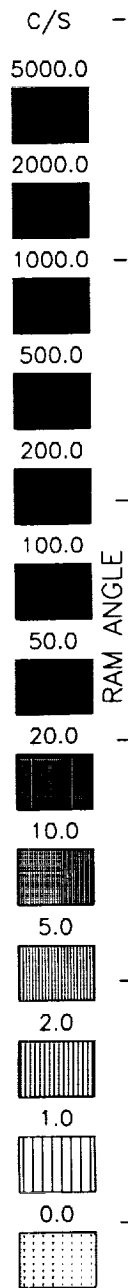
RAM ANGLE



TIME	0740	0820	0900	0940	1020	1100	0000	0000	0000	0000	0000	DEGS
RE	4.2	4.6	4.7	4.5	4.1	3.3	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.2	4.8	5.3	6.0	7.0	10.4	0.0	0.0	0.0	0.0	0.0	RE
MLT	22.0	21.9	21.7	21.5	21.4	21.0	0.0	0.0	0.0	0.0	0.0	
MLAT	4.33	13.74	21.98	30.44	40.50	54.78	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	60.8	62.8	64.4	65.9	67.8	71.9	0.0	0.0	0.0	0.0	0.0	DEGS

DE RMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Sat Sep 25 17:18:57 1993

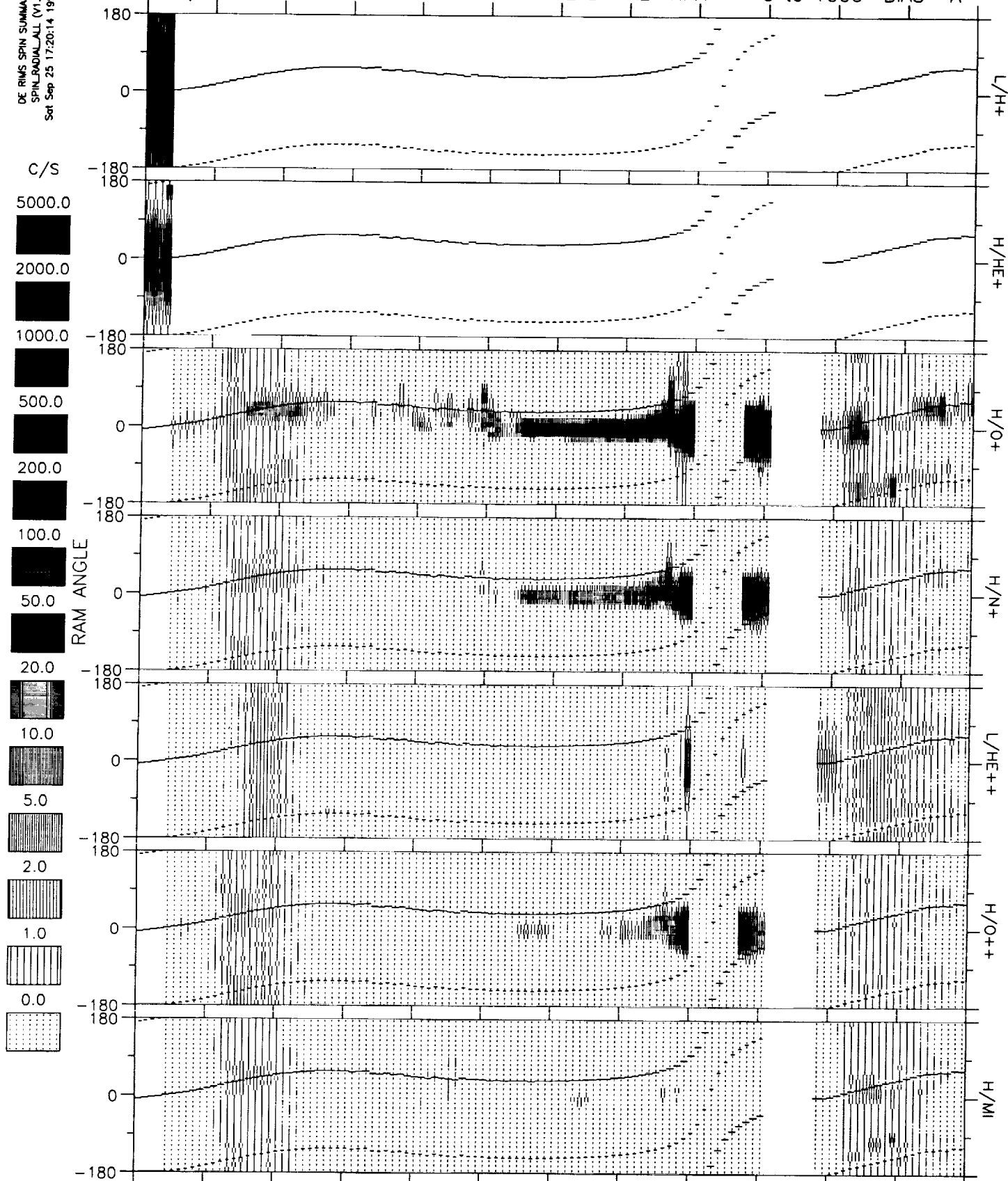
82/091 01-APR 1415:00 - 2215:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	2055	2135	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	4.4	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.5	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	22.2	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-7.15	7.89	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0	61.9	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIALALL (V1.0)
Sat Sep 25 17:20:14 1993

82/091 01-APR 2030:00 - 0430:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	2110	2150	2230	2310	2350	0030	0110	0150	0230	0310	0350	DEGS
RE	4.1	4.5	4.7	4.6	4.2	3.6	2.6	1.3	1.7	3.0	3.9	HHMM
L	4.2	4.8	5.6	7.0	9.7	19.0	-0.0	1.4	5.9	3.3	4.0	RE
MLT	22.1	22.2	22.4	22.5	22.6	22.9	5.3	9.9	21.9	22.0	22.0	HRS
MLAT	-1.10	12.82	25.14	37.16	50.06	65.82	85.48	18.22	*****	*****	4.32	DEGS
INVLAT	60.6	62.7	65.0	67.8	71.3	76.7	-0.0	31.3	65.7	56.4	59.8	

DE RMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Sat Sep 25 17:23:45 1993

82/092 02-APR 0330:00 - 1130:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

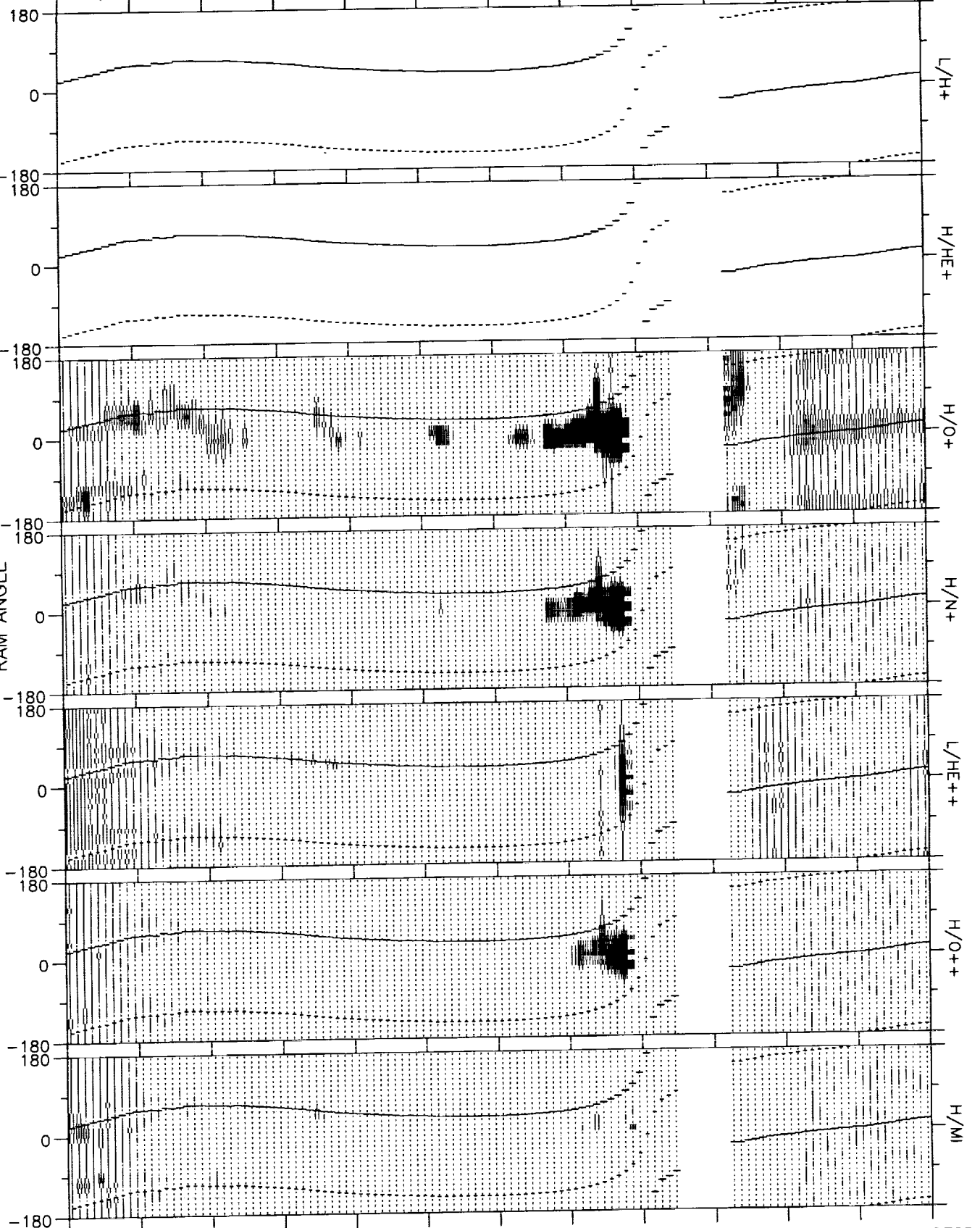
5.0

2.0

1.0

0.0

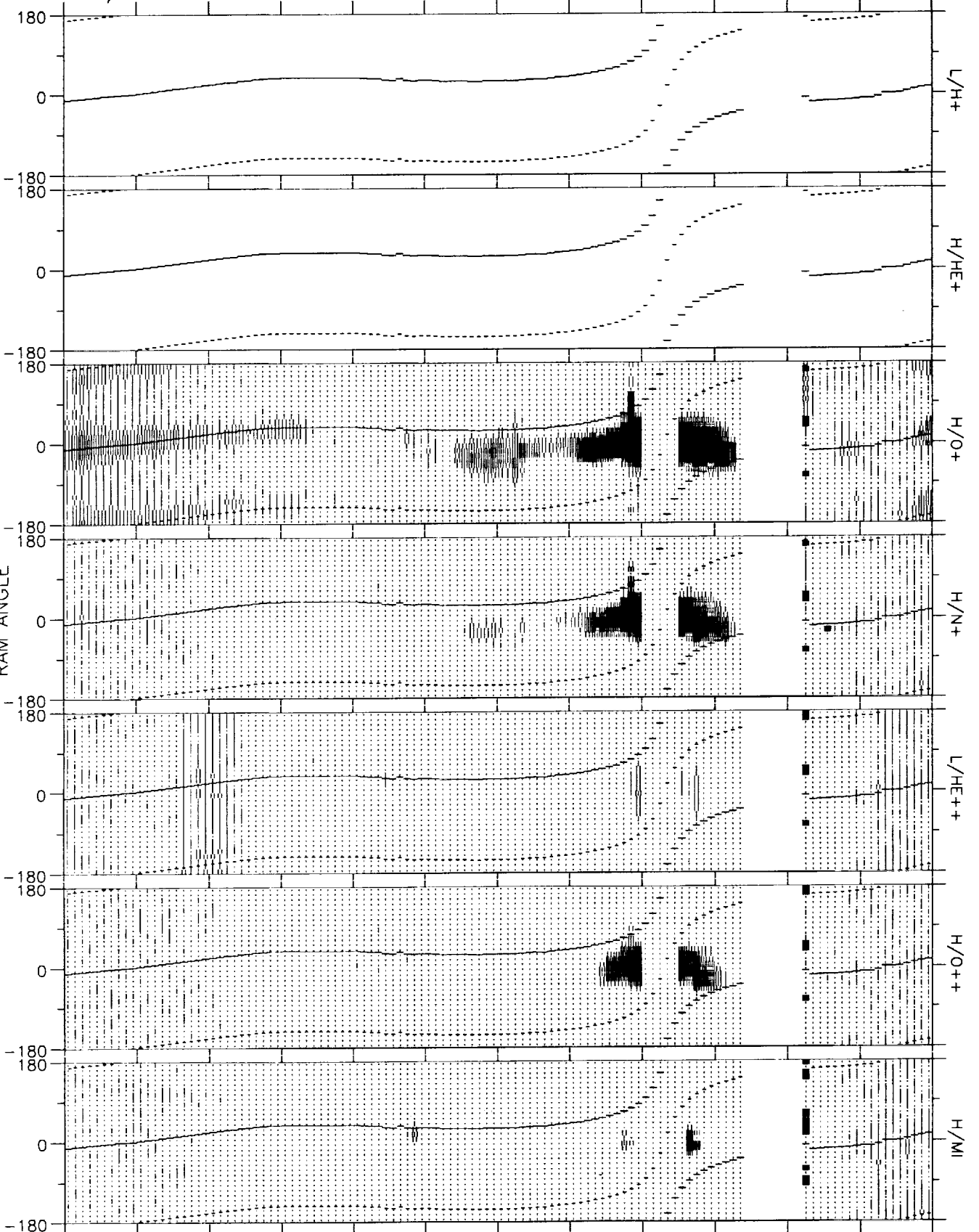
RAM ANGLE



TIME	0410	0450	0530	0610	0650	0730	0810	0850	0000	1010	1050	DEGS
RE	4.2	4.6	4.7	4.5	4.1	3.4	2.3	1.1	0.0	3.3	4.0	HHMM
L	4.4	5.3	6.3	7.5	9.6	15.9	83.5	1.2	0.0	4.0	4.1	RE
MLT	22.0	21.9	21.7	21.5	21.2	20.5	15.8	9.8	0.0	22.2	22.0	
MLAT	10.85	21.54	30.64	39.45	49.30	62.36	78.63	-9.06	0.00	*****	-9.49	HRS
INVLAT	61.5	64.3	66.5	68.7	71.2	75.5	83.7	25.9	0.0	59.8	60.4	DEGS

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Sat Sep 25 17:25:46 1993

82/092 02-APR 1015:00 - 1815:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1055	1135	1215	1255	1335	1415	1455	1535	1615	0000	1735	DEGS
RE	4.1	4.5	4.7	4.6	4.2	3.5	2.5	1.2	1.9	0.0	3.9	HHMM
L	4.1	4.5	4.8	5.2	5.9	7.9	33.0	1.5	16.5	0.0	4.2	RE
MLT	22.0	21.8	21.8	21.7	21.8	21.8	22.1	9.8	21.1	0.0	21.9	
MLAT	-8.01	2.30	11.53	21.01	32.07	46.90	72.31	26.92	*****	0.00	*****	HRS
INVLAT	60.6	61.8	62.9	64.0	65.7	69.2	80.0	35.6	75.7	0.0	60.6	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Sat Sep 25 17:27:48 1993

82/092 02-APR 1700:00 - 0100:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

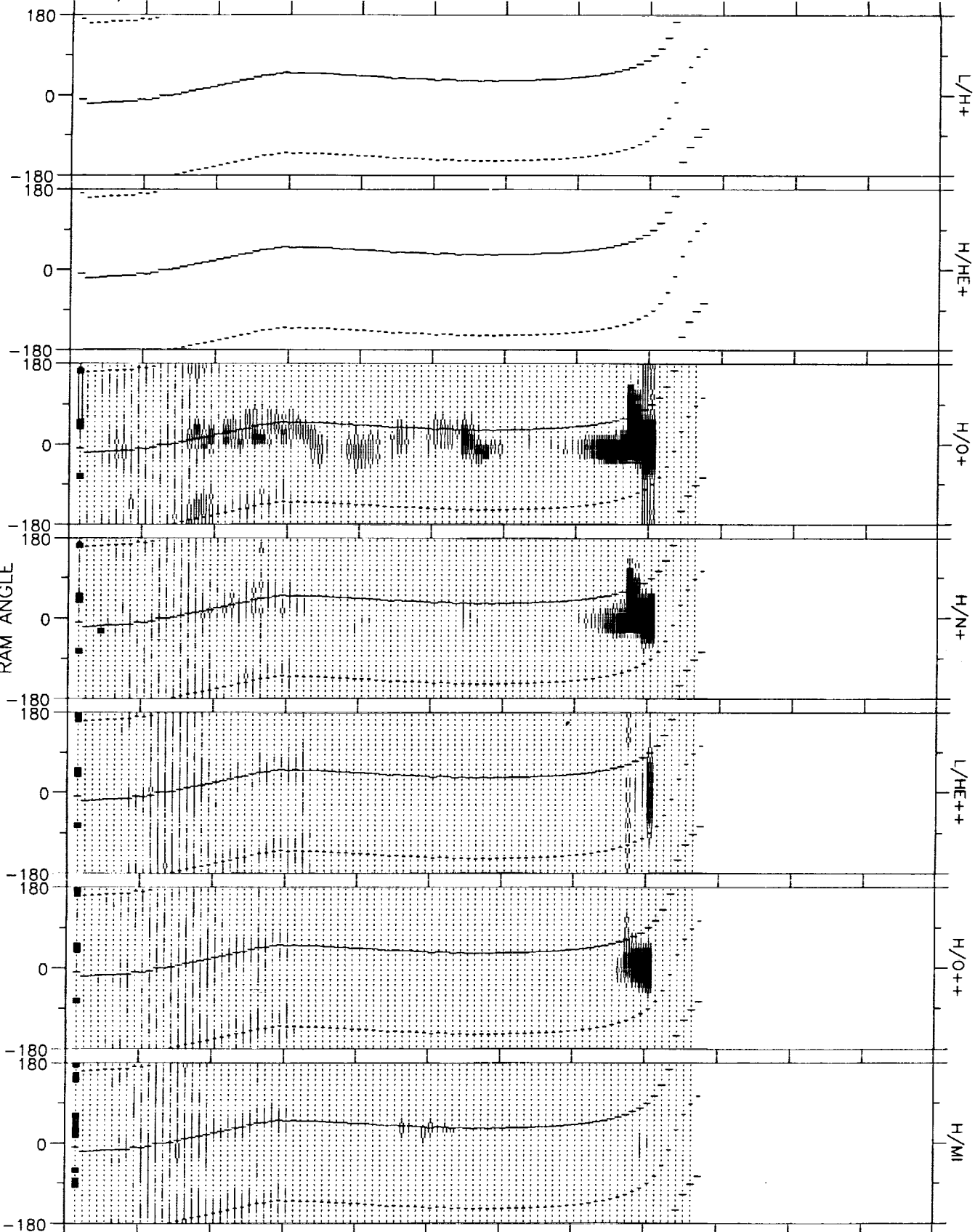
5.0

2.0

1.0

0.0

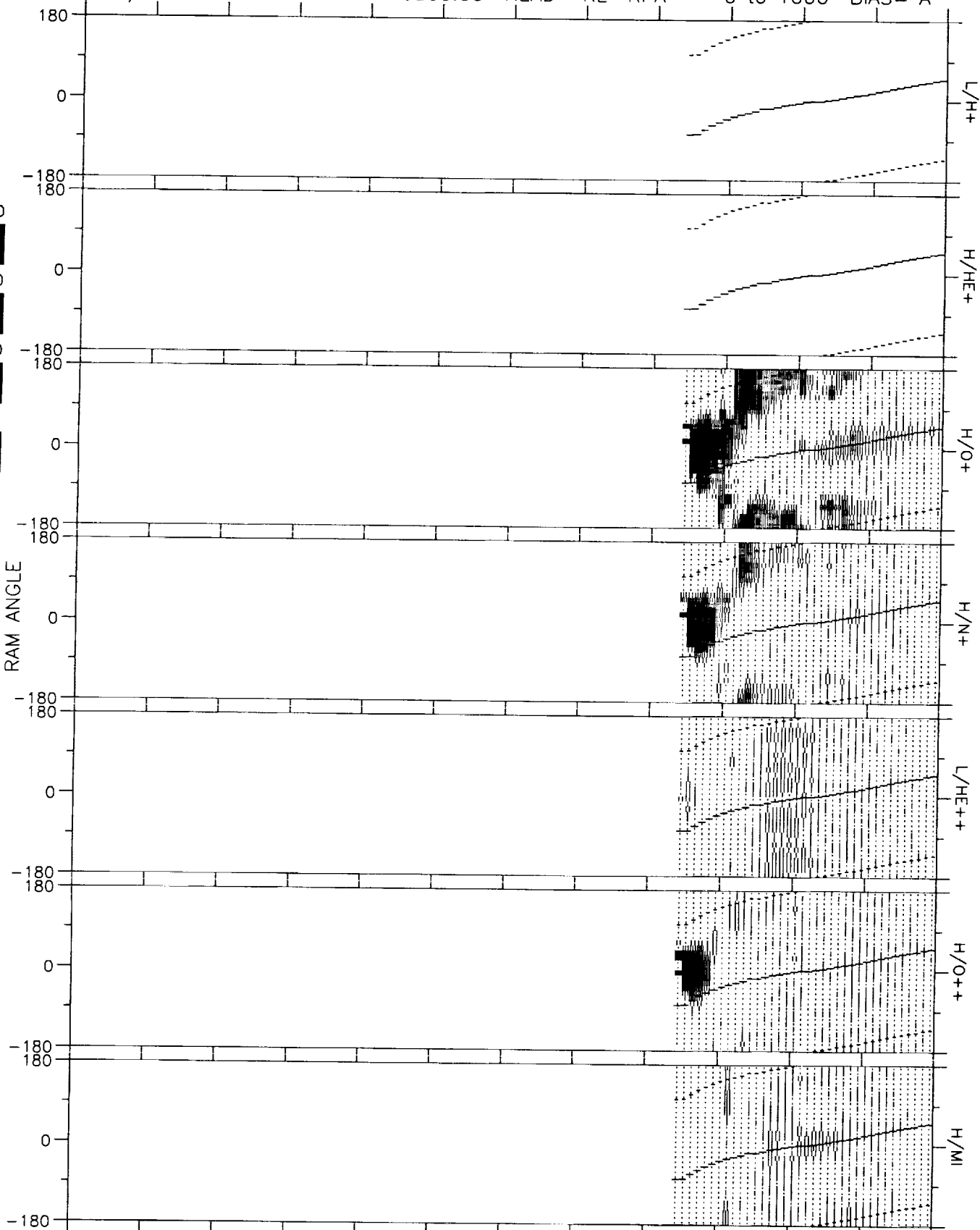
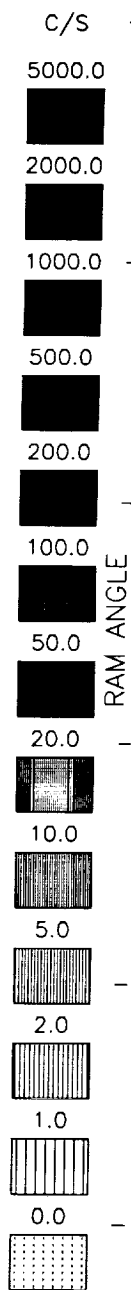
RAM ANGLE



TIME	1740	1820	1900	1940	2020	2100	2140	2220	0000	0000	0000	DEGS
RE	4.0	4.5	4.7	4.6	4.3	3.6	2.6	1.3	0.0	0.0	0.0	HHMM
L	4.2	4.5	5.0	5.7	6.9	10.5	47.2	1.8	0.0	0.0	0.0	RE
MLT	21.9	22.1	22.2	22.4	22.7	23.2	1.6	9.6	0.0	0.0	0.0	
MLAT	*****	2.18	14.40	26.44	39.41	55.17	76.33	31.58	0.00	0.00	0.00	HRS
INVLAT	60.7	61.8	63.3	65.2	67.7	72.1	81.6	41.3	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Sat Sep 25 17:29:34 1993

82/093 03-APR 0000:00 - 0800:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	0000	0000	0000	0600	0640	0720	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	3.1	4.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	3.5	4.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.6	22.2	21.9	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	-0.66	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.5	57.5	59.9	DEGS

DE RMS SPIN SUMMARY
SPINRADIAL.ALL (V1.0)
Sat Sep 25 17:30:55 1993

82/093 03-APR 0715:00 - 1515:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

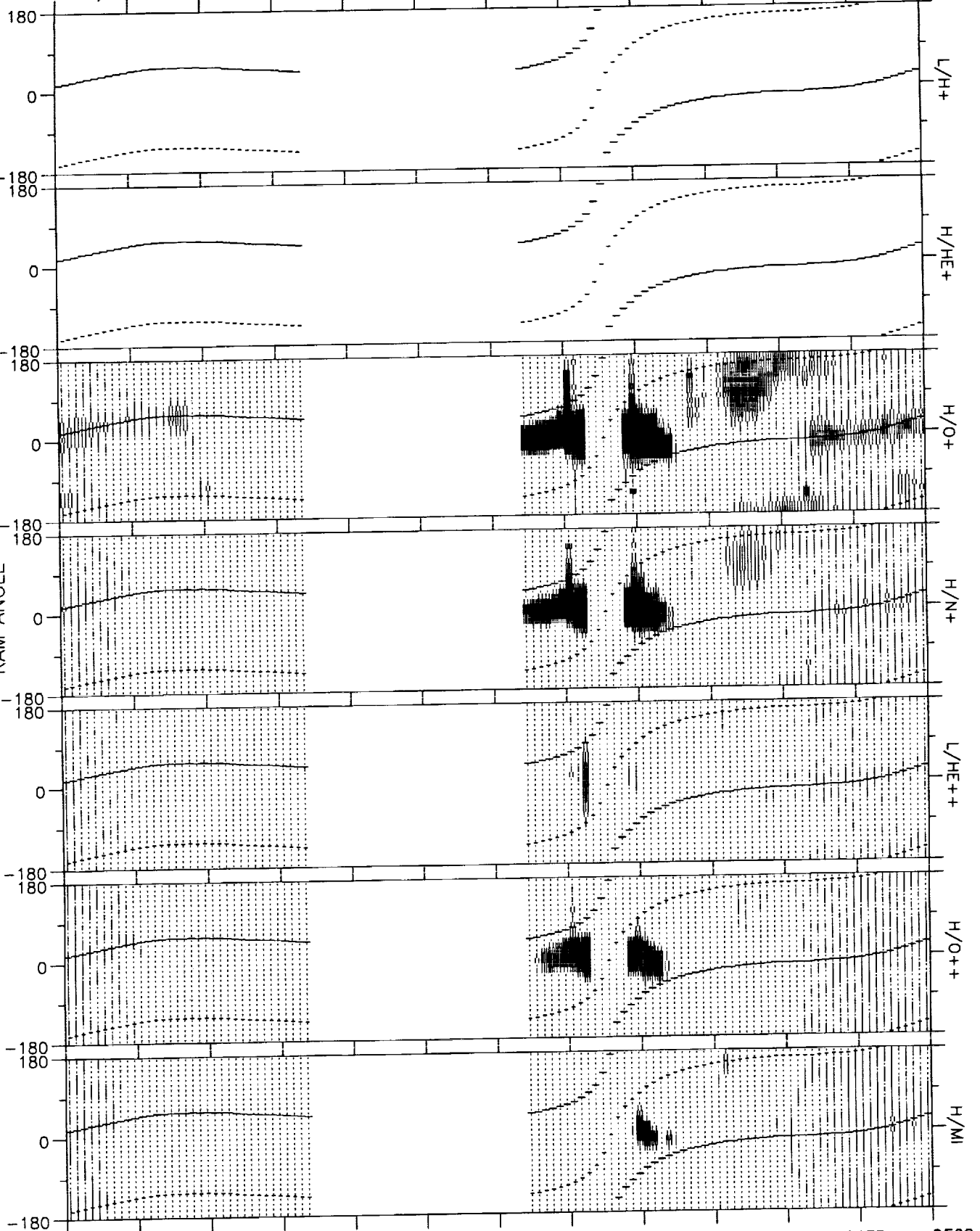
5.0

2.0

1.0

0.0

RAM ANGLE



TIME	0755	0835	0915	0000	0000	0000	1155	1235	1315	1355	1435	DEGS
RE	4.4	4.7	4.6	0.0	0.0	0.0	1.5	1.5	2.8	3.7	4.3	HHMM
L	4.5	5.0	5.6	0.0	0.0	0.0	6.1	74.3	5.1	4.2	4.3	RE
MLT	21.8	21.7	21.5	0.0	0.0	0.0	10.8	6.0	22.0	21.9	21.8	HRS
MLAT	8.44	17.08	25.28	0.00	0.00	0.00	63.30	****	****	****	-8.04	DEGS
INVLAT	61.8	63.5	64.9	0.0	0.0	0.0	66.0	83.3	63.8	60.9	61.3	

DE RIMS SPIN SUMMARY
SPIN_RADIALALL (V1.0)
Sat Sep 25 17:32:49 1993

82/093 03-APR 1330:00 - 2130:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

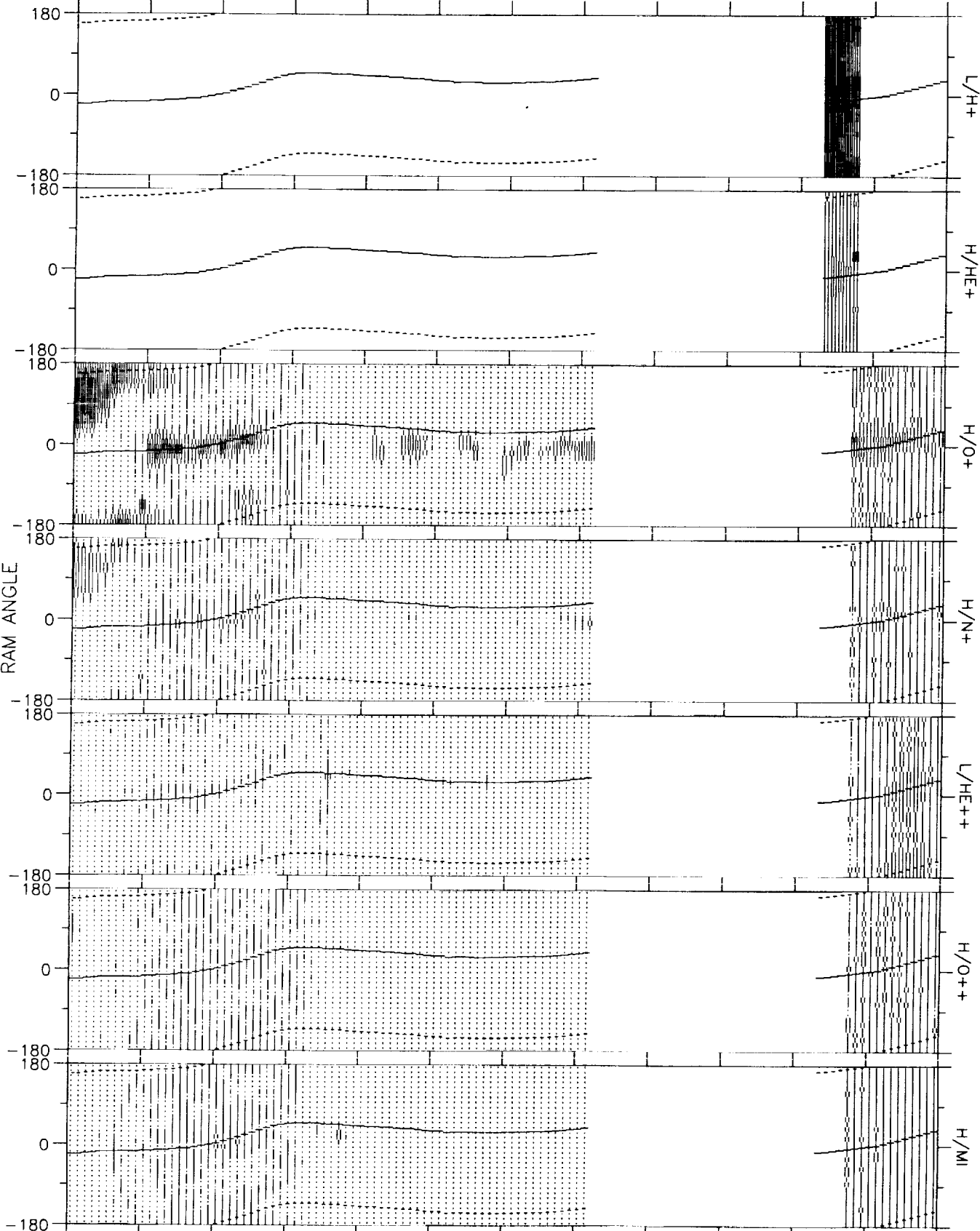
5.0

2.0

1.0

0.0

RAM ANGLE



TIME	1410	1450	1530	1610	1650	1730	1810	0000	0000	0000	2050	DEGS
RE	4.0	4.5	4.7	4.6	4.3	3.7	2.7	0.0	0.0	0.0	3.8	HHMM
L	4.2	4.4	4.7	5.1	5.9	7.7	21.2	0.0	0.0	0.0	4.0	RE
MLT	21.8	21.9	21.9	22.0	22.2	22.5	23.6	0.0	0.0	0.0	21.9	
MLAT	*****	-3.61	7.40	18.40	30.58	45.65	67.95	0.00	0.00	0.00	-7.71	HRS
INVLAT	60.9	61.6	62.6	63.8	65.6	68.9	77.4	0.0	0.0	0.0	59.9	DEGS

DE RMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Sat Sep 25 17:34:44 1993

82/093 03-APR 2030:00 - 0430:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

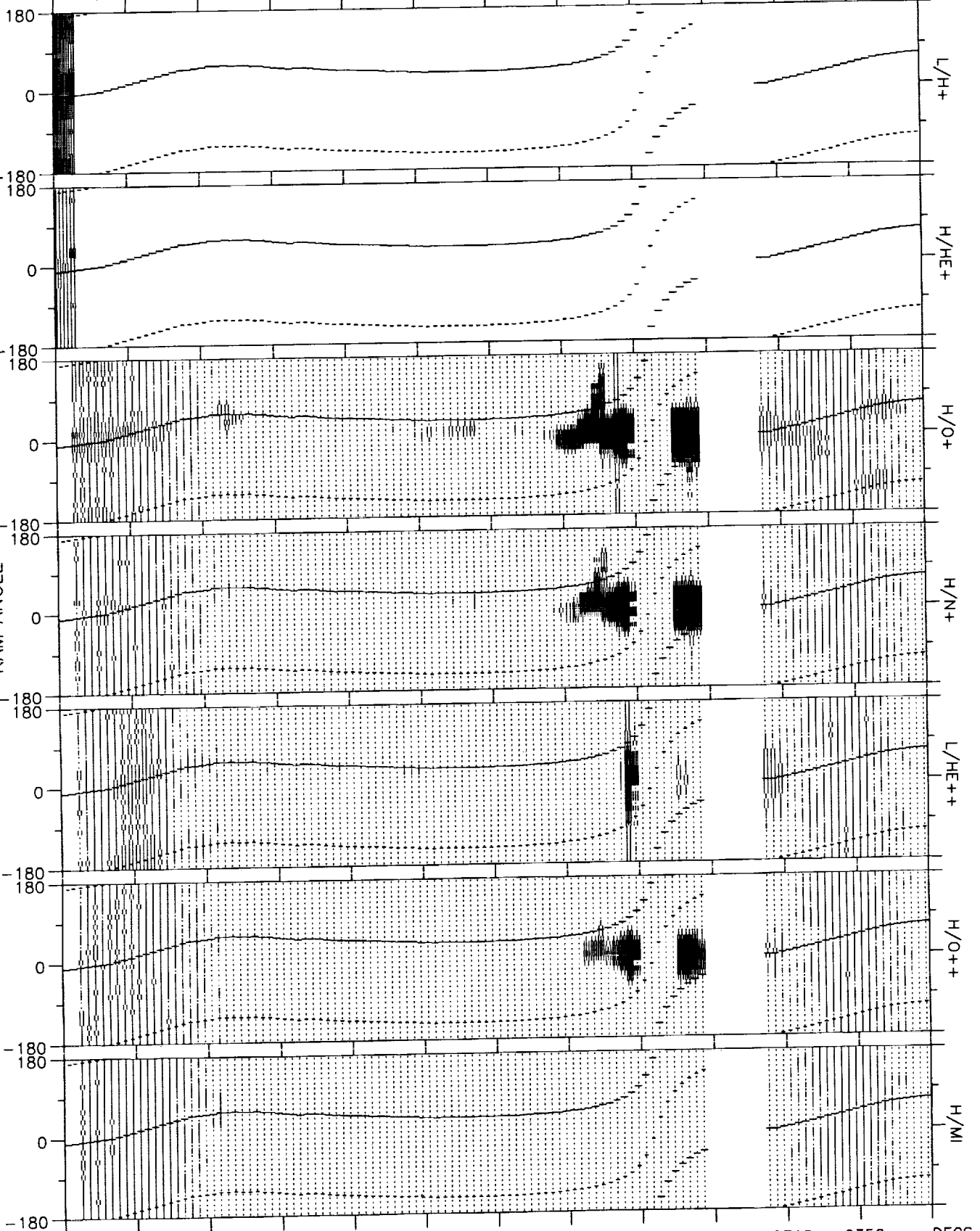
5.0

2.0

1.0

0.0

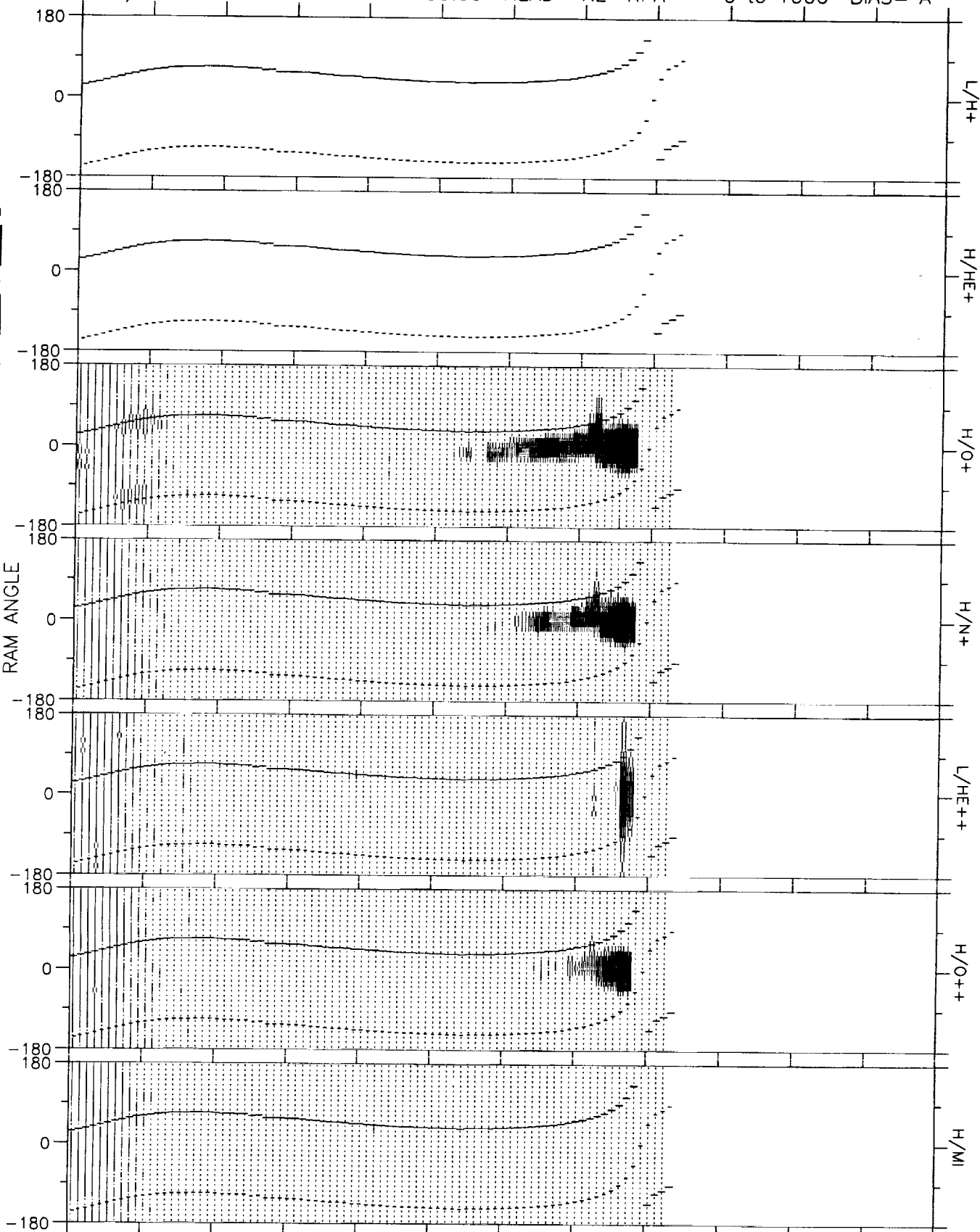
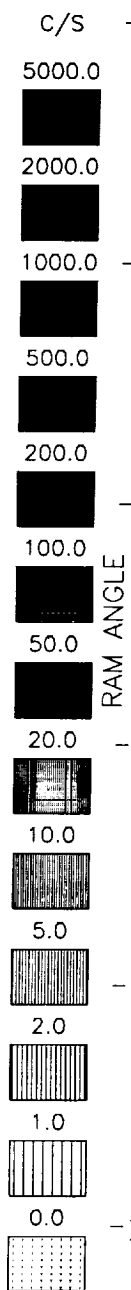
RAM ANGLE



TIME	2110	2150	2230	2310	2350	0030	0110	0150	0000	0310	0350	DEGS
RE	4.1	4.5	4.7	4.6	4.2	3.5	2.4	1.1	0.0	3.2	4.0	HHMM
L	4.2	4.8	5.7	7.1	10.0	21.0	100.0	1.1	0.0	3.3	4.0	RE
MLT	22.0	22.1	22.3	22.4	22.5	22.8	7.5	9.9	0.0	21.9	21.9	HRS
MLAT	0.23	13.86	26.07	38.12	51.23	67.58	83.45	-0.78	0.00	****	5.30	DEGS
INVLAT	60.8	62.8	65.2	67.9	71.5	77.4	86.5	13.4	0.0	56.8	60.2	

DE RMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Sat Sep 25 17:38:27 1993

82/094 04-APR 0330:00 - 1130:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0410	0450	0530	0610	0650	0730	0810	0850	0000	0000	0000	DEGS
RE	4.2	4.6	4.7	4.5	4.0	3.3	2.1	1.1	0.0	0.0	0.0	HHMM
L	4.5	5.4	6.3	7.6	9.7	16.9	56.4	1.9	0.0	0.0	0.0	RE
MLT	21.8	21.7	21.6	21.4	21.0	20.3	14.2	9.3	0.0	0.0	0.0	
MLAT	11.57	21.97	30.95	39.77	49.89	63.67	77.38	****	0.00	0.00	0.00	HRS
INVLAT	61.8	64.4	66.6	68.7	71.2	75.9	82.3	43.3	0.0	0.0	0.0	DEGS

DE RMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Sat Sep 25 17:40:13 1993

82/094 04-APR 1015:00 - 1815:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

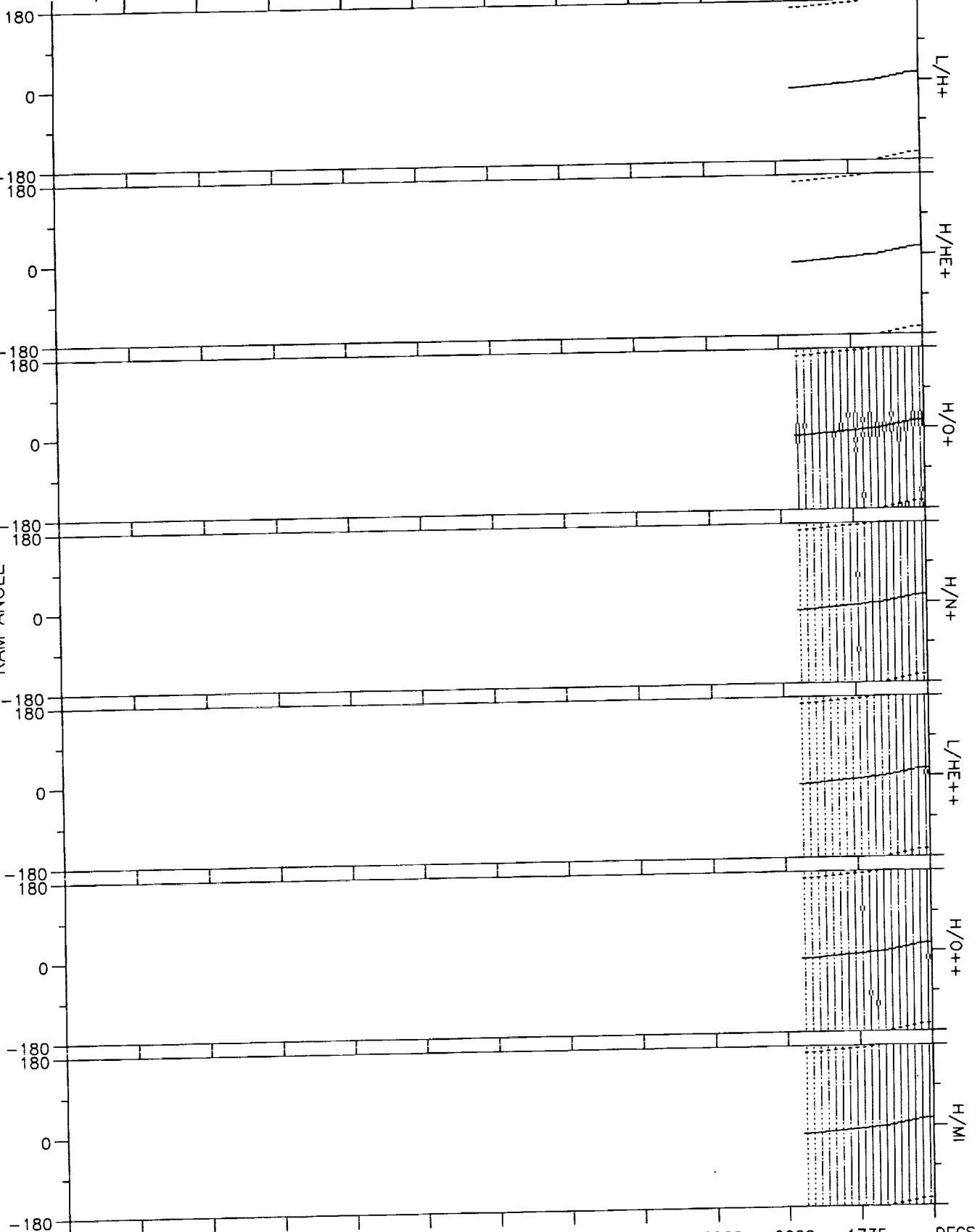
5.0

2.0

1.0

0.0

RAM ANGLE



TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	1735	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.8	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.8	DEGS

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Sat Sep 25 17:41:29 1993

82/094 04-APR 1700:00 - 0100:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

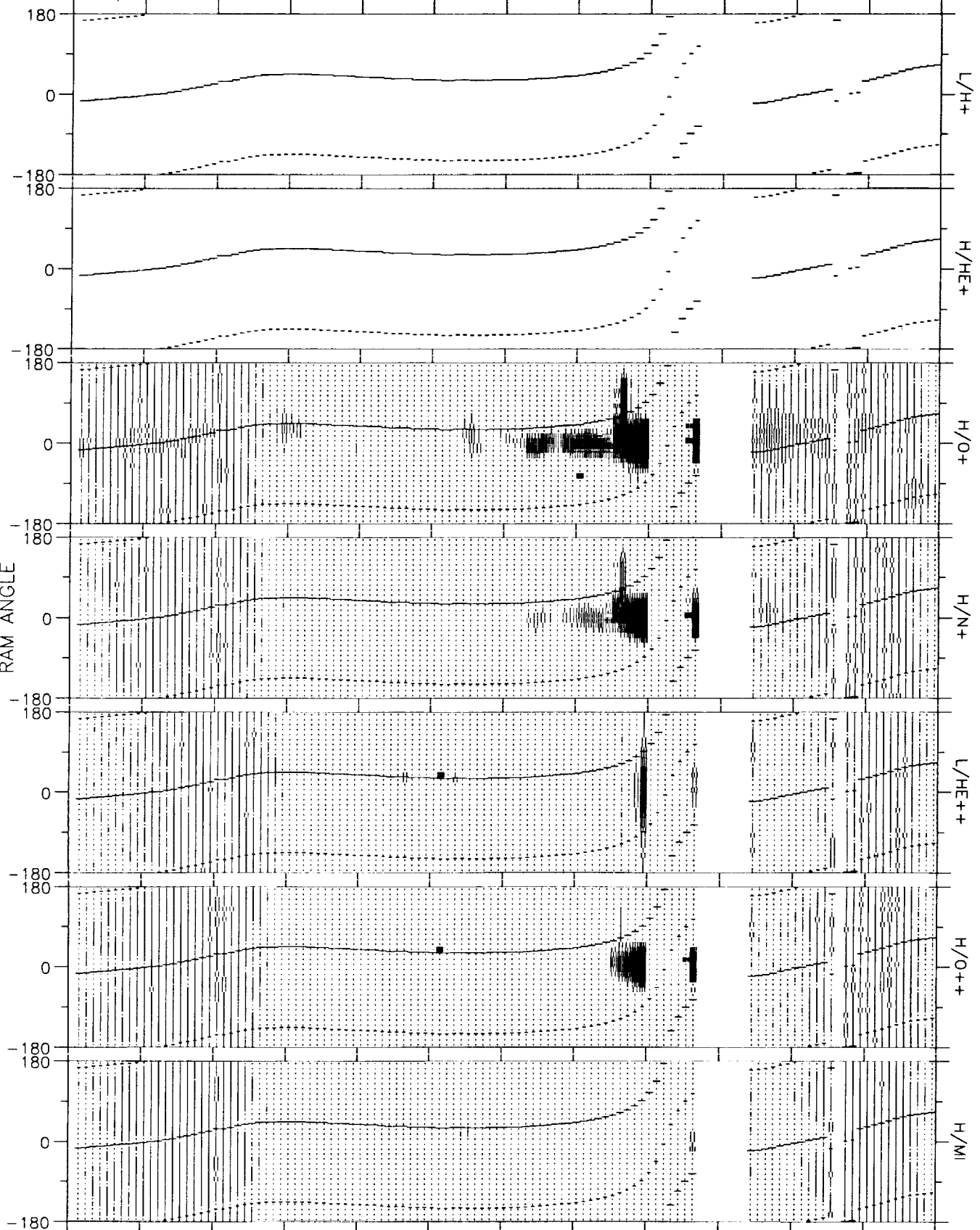
5.0

2.0

1.0

0.0

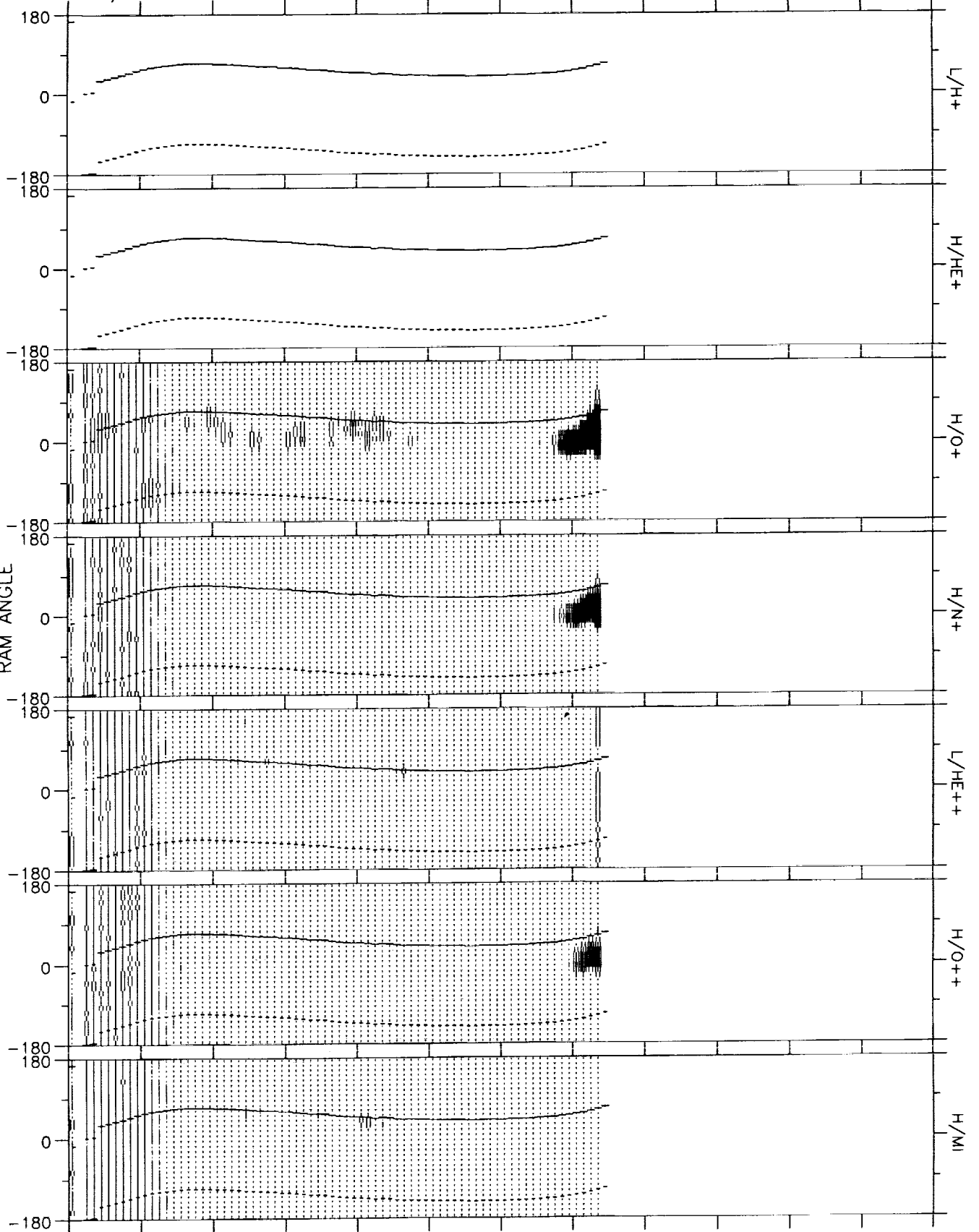
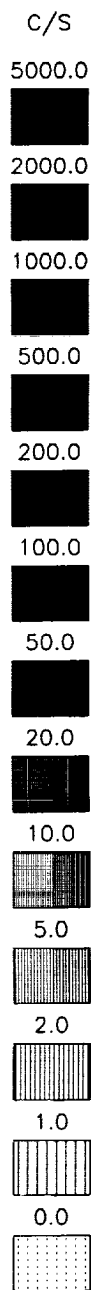
RAM ANGLE



TIME	1740	1820	1900	1940	2020	2100	2140	2220	0000	2340	0020	DEGS
RE	4.1	4.5	4.7	4.6	4.2	3.5	2.5	1.2	0.0	3.1	3.9	HHMM
L	4.2	4.5	5.0	5.7	7.1	11.2	66.9	1.2	0.0	3.5	4.0	RE
MLT	21.8	22.0	22.1	22.4	22.6	23.1	2.6	9.7	0.0	21.7	21.9	
MLAT	*****	3.21	15.35	27.45	40.71	56.98	78.34	14.19	0.00	*****	3.23	HRS
INVLAT	60.9	62.0	63.4	65.3	67.9	72.6	83.0	25.4	0.0	57.8	60.2	DEGS

DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Sun Sep 26 07:53:34 1993

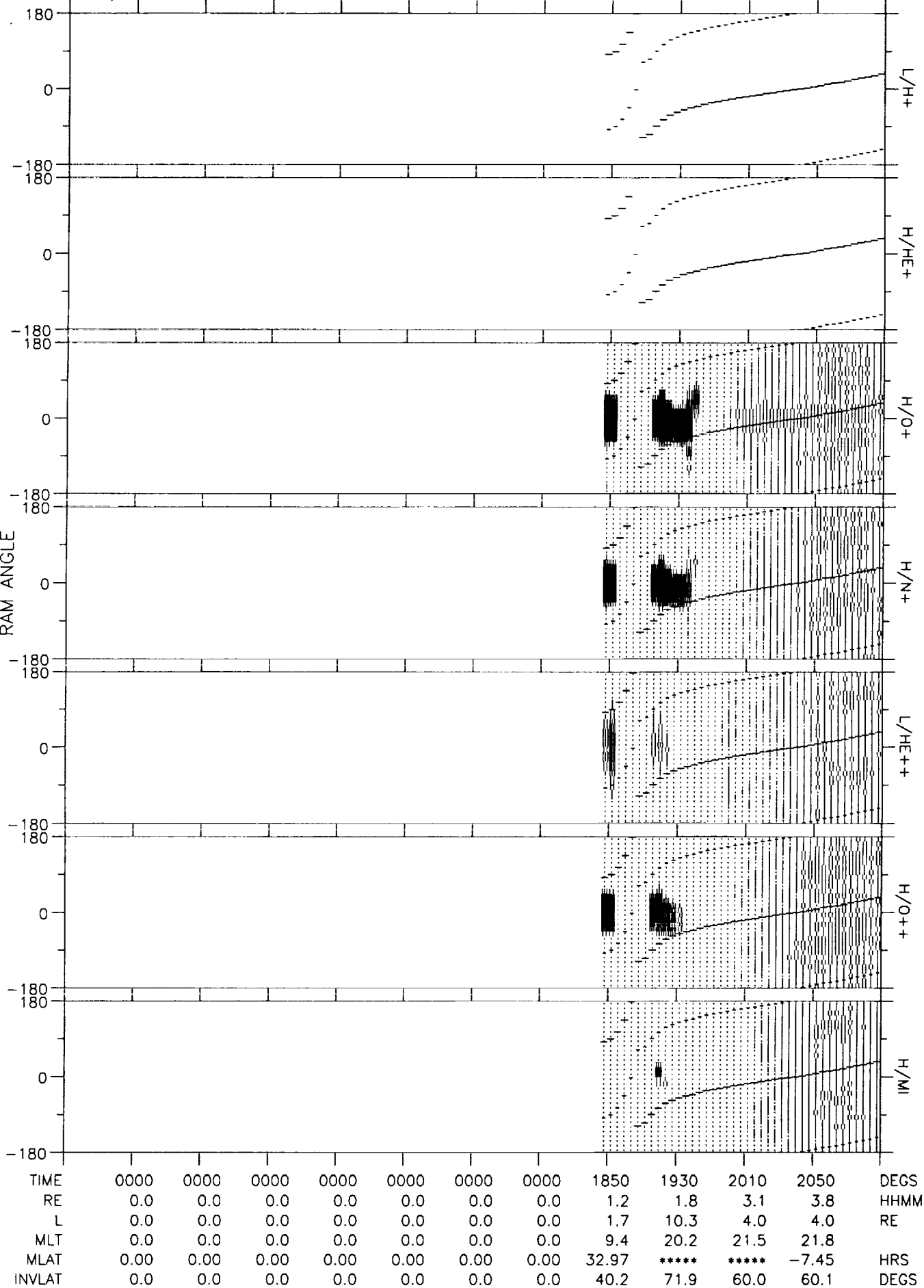
82/095 05-APR 0000:00 - 0800:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0040	0120	0200	0240	0320	0400	0440	0000	0000	0000	0000	DEGS
RE	4.2	4.6	4.7	4.5	4.1	3.3	2.2	0.0	0.0	0.0	0.0	HHMM
L	4.4	5.4	6.8	8.8	13.0	32.3	-0.0	0.0	0.0	0.0	0.0	RE
MLT	21.9	21.9	21.9	21.8	21.6	20.9	11.8	0.0	0.0	0.0	0.0	HRS
MLAT	10.45	22.73	33.62	44.31	56.12	71.47	77.26	0.00	0.00	0.00	0.00	DEGS
INVLAT	61.7	64.6	67.4	70.3	73.9	79.9	-0.0	0.0	0.0	0.0	0.0	

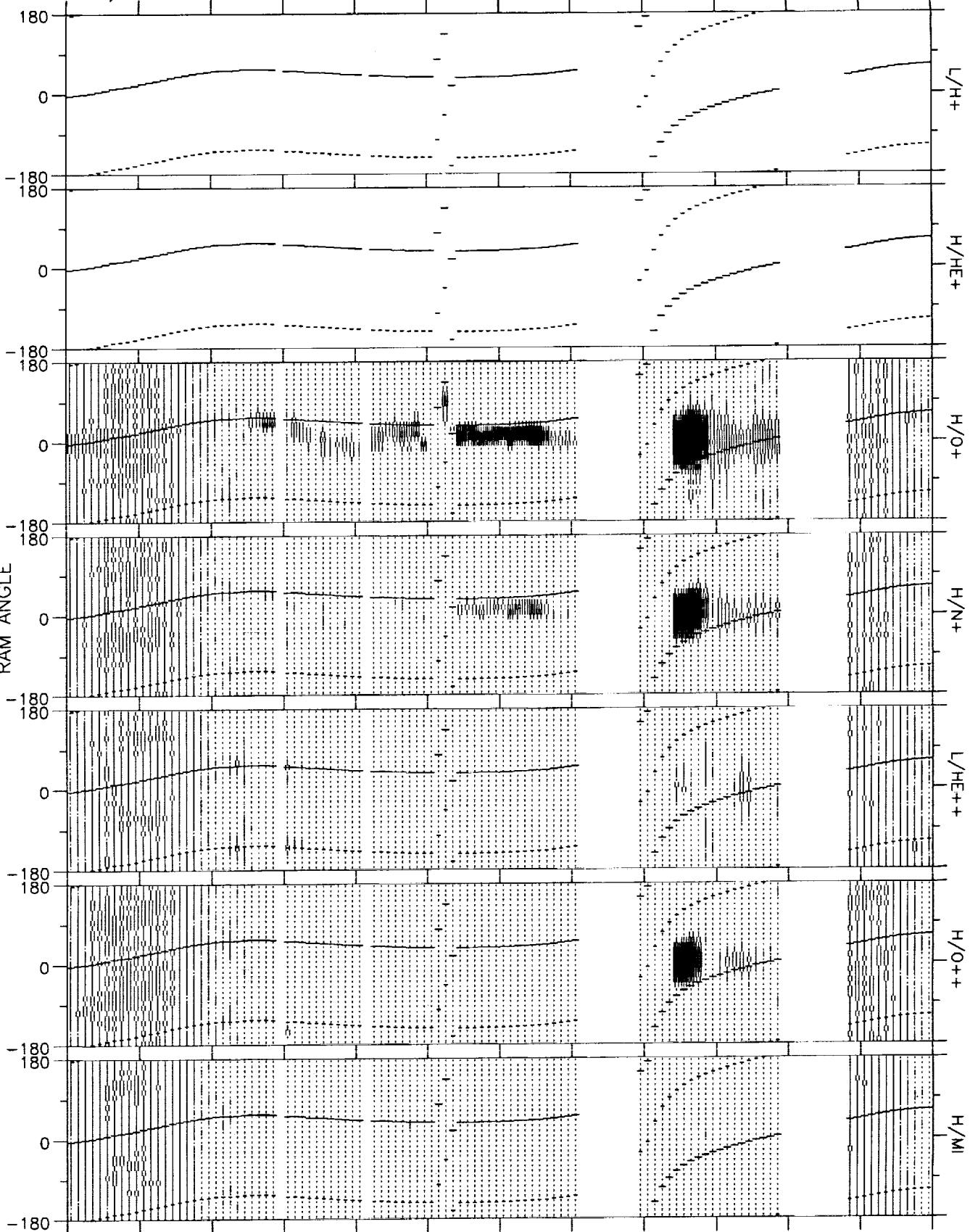
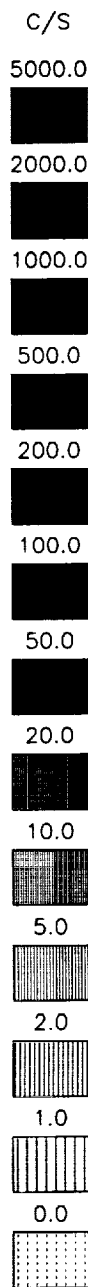
DE RIMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Sun Sep 26 07:55:48 1993

82/095 05-APR 1330:00 - 2130:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Sun Sep 26 08:05:31 1993

82/095 05-APR 2030:00 - 0430:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	2110	2150	2230	2310	2350	0030	0110	0150	0230	0000	0350	DEGS
RE	4.2	4.6	4.7	4.5	4.1	3.4	2.3	1.1	2.1	0.0	4.0	HHMM
L	4.2	4.9	5.8	7.2	10.3	23.8	100.0	1.2	3.7	0.0	4.1	RE
MLT	21.9	22.0	22.2	22.3	22.4	22.8	8.3	9.8	21.8	0.0	21.8	
MLAT	1.56	14.93	27.03	39.03	52.49	69.50	80.53	*****	*****	0.00	6.25	HRS
INVLAT	61.0	63.0	65.4	68.1	71.9	78.2	84.9	22.3	58.5	0.0	60.5	DEGS

DE RIMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Sun Sep 26 08:07:24 1993

82/096 06-APR 0315:00 - 1115:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

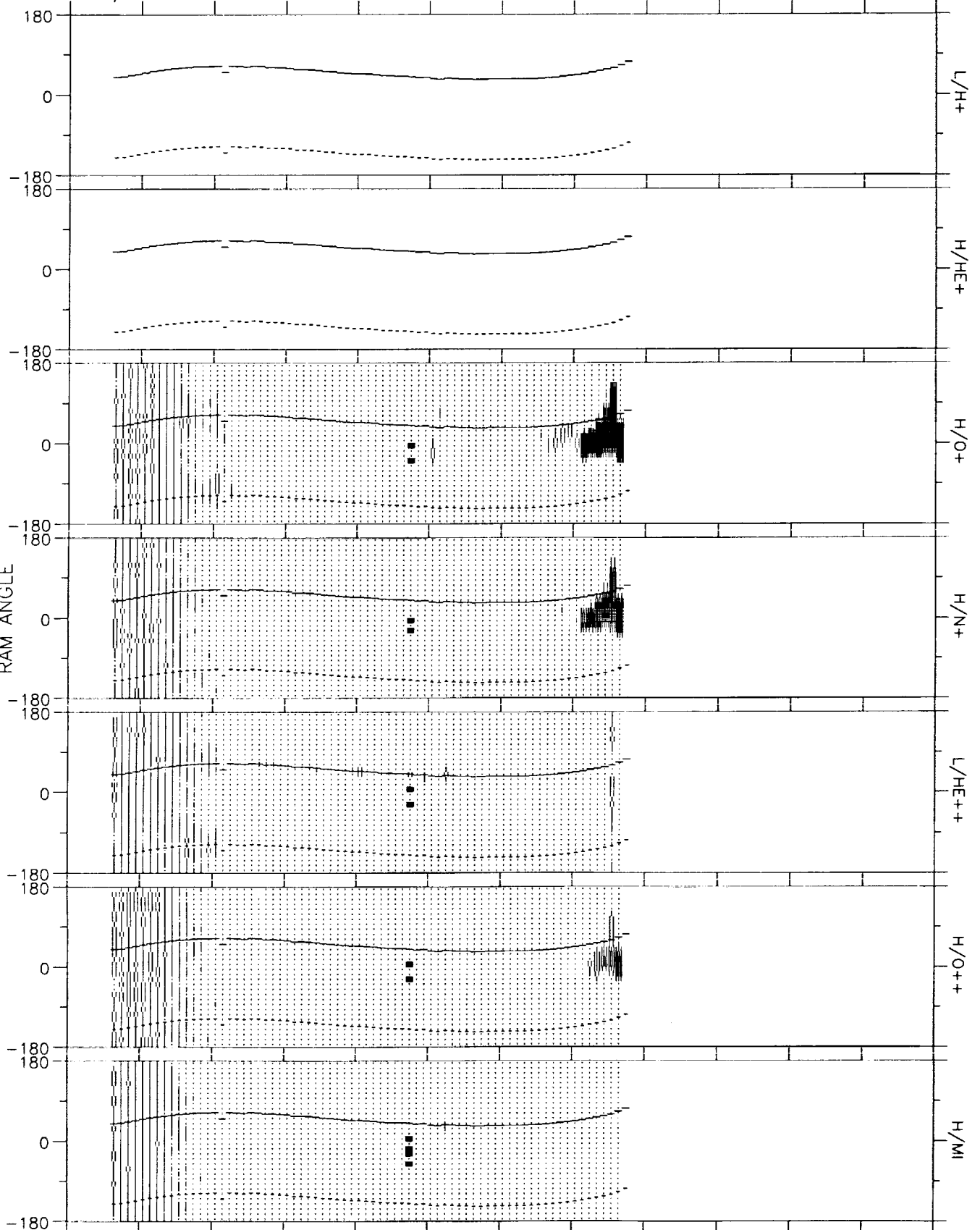
5.0

2.0

1.0

0.0

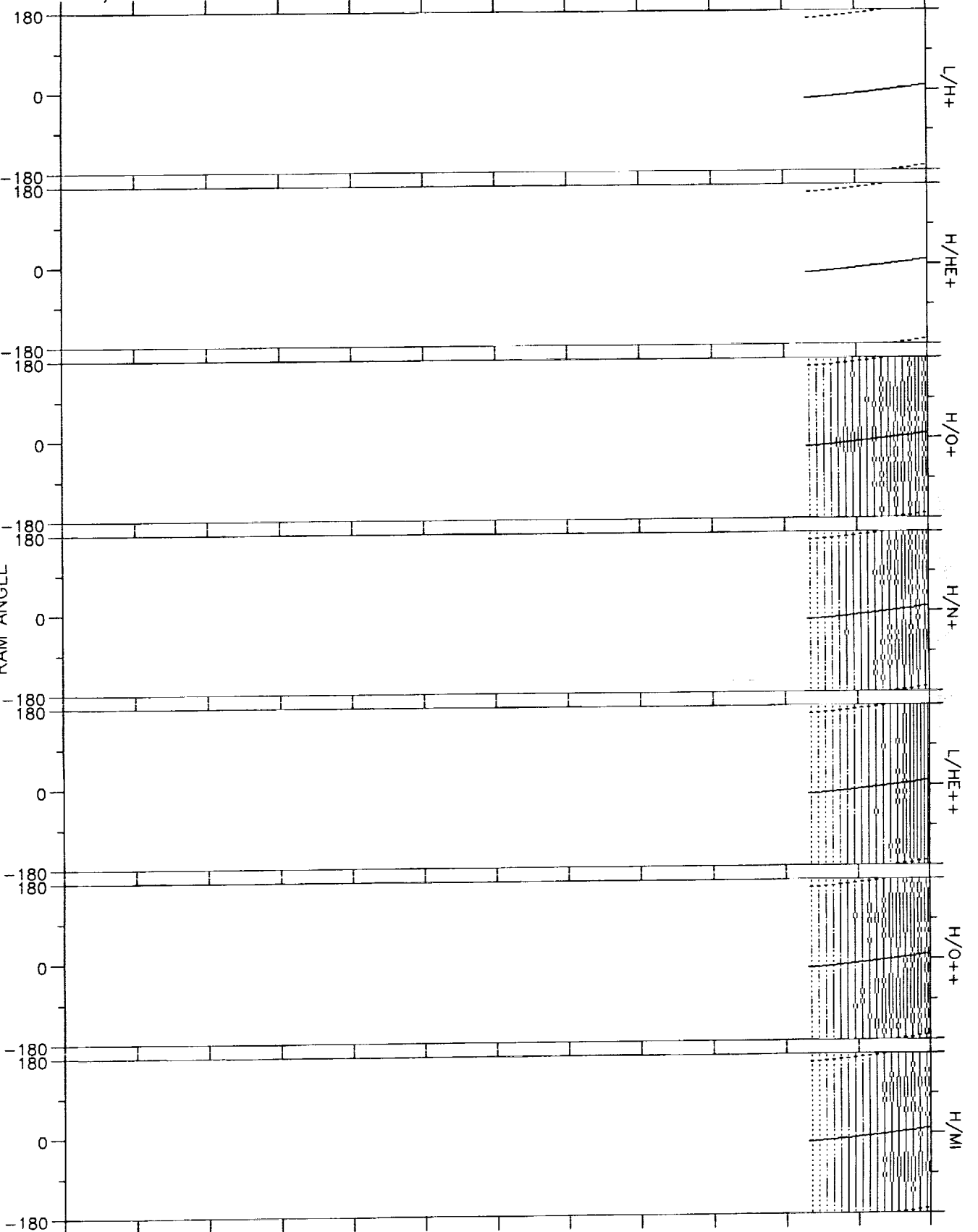
RAM ANGLE



TIME	0355	0435	0515	0555	0635	0715	0755	0000	0000	0000	0000	DEGS
RE	4.1	4.5	4.7	4.6	4.2	3.5	2.5	0.0	0.0	0.0	0.0	HHMM
L	4.2	5.1	6.0	7.1	8.7	13.1	67.5	0.0	0.0	0.0	0.0	RE
MLT	21.7	21.6	21.5	21.3	21.0	20.5	17.5	0.0	0.0	0.0	0.0	
MLAT	7.85	18.80	27.98	36.72	46.32	58.82	77.33	0.00	0.00	0.00	0.00	HRS
INVLAT	60.9	63.7	65.9	67.9	70.2	74.0	83.0	0.0	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Sun Sep 26 08:08:59 1993

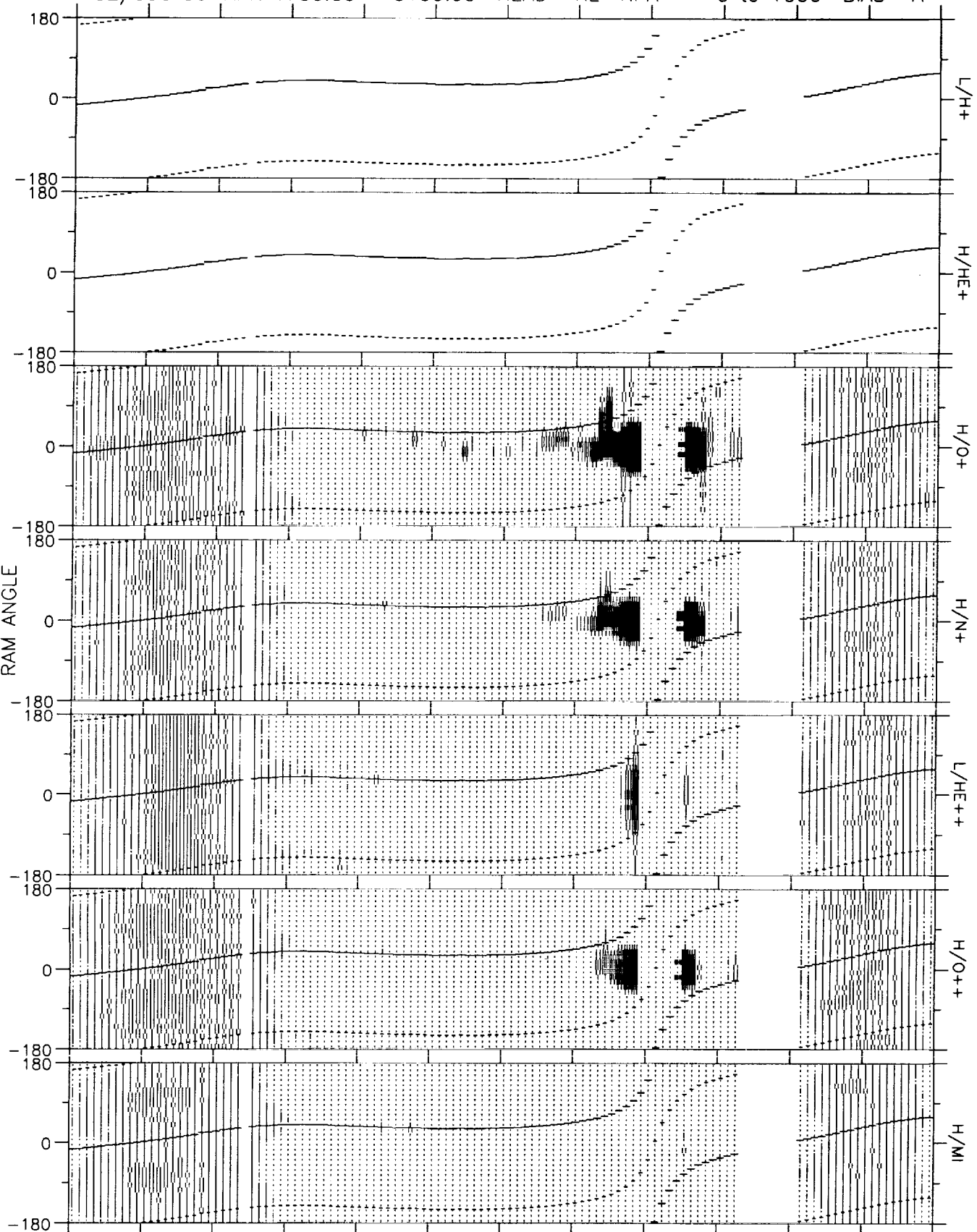
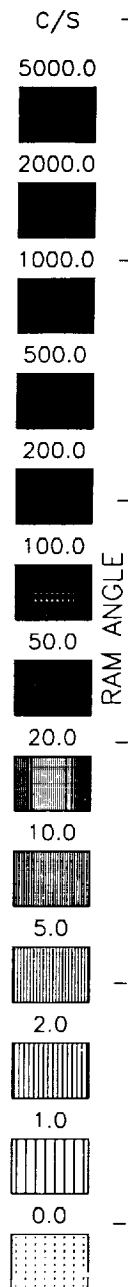
82/096 06-APR 1000:00 - 1800:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	1720	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.6	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.8	DEGS

DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Sun Sep 26 08:15:46 1993

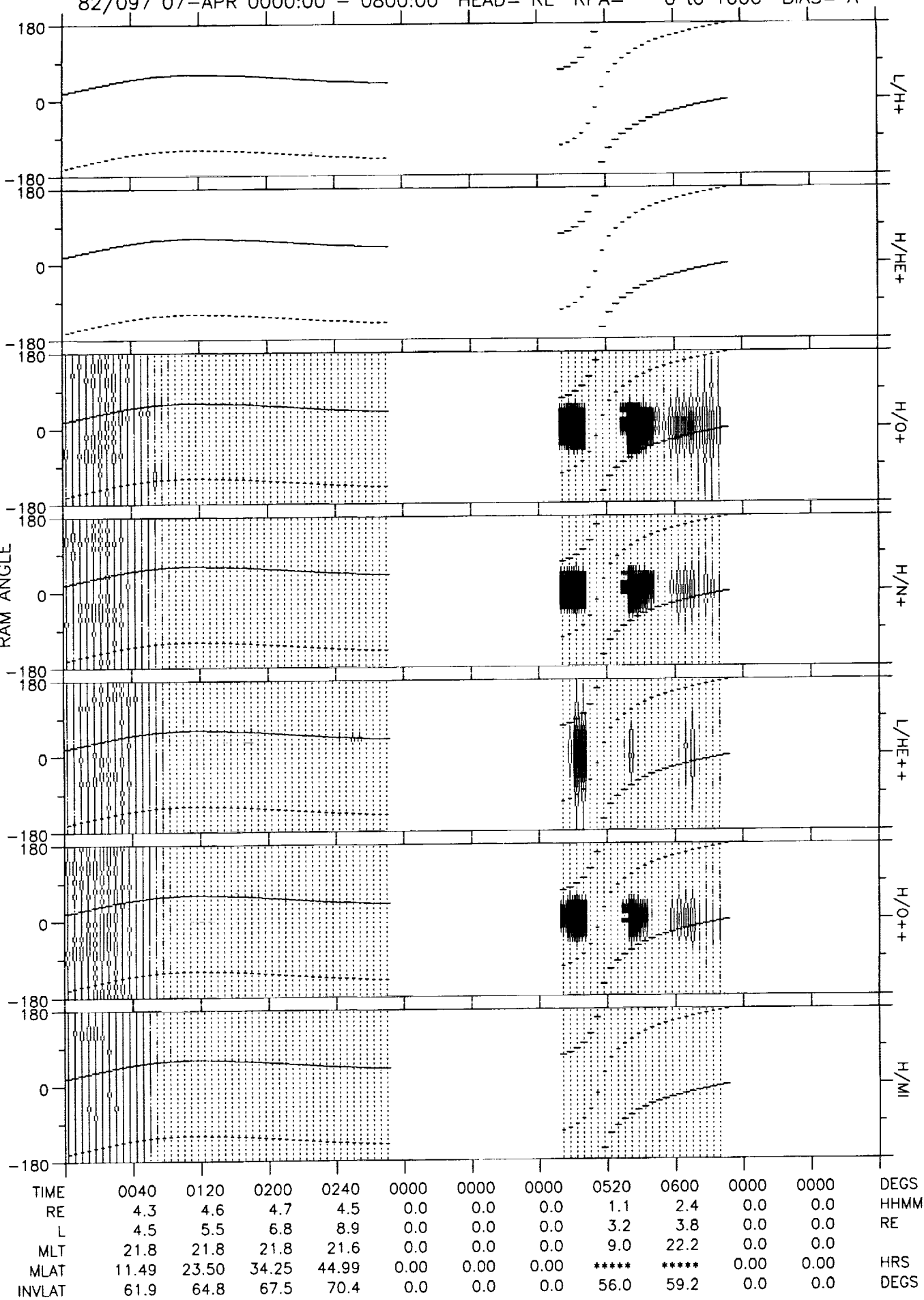
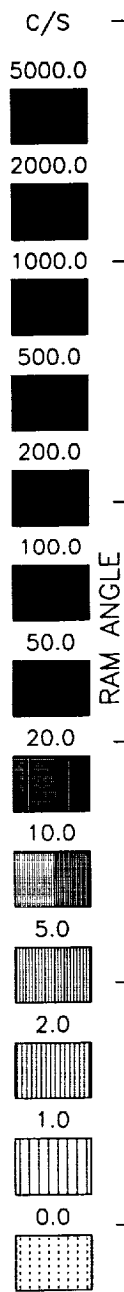
82/096 06-APR 1700:00 - 0100:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1740	1820	1900	1940	2020	2100	2140	2220	2300	0000	0020	DEGS
RE	4.2	4.6	4.7	4.5	4.1	3.4	2.3	1.1	2.1	0.0	4.0	HHMM
L	4.3	4.6	5.0	5.8	7.2	12.0	86.6	1.1	4.6	0.0	4.1	RE
MLT	21.7	21.9	22.0	22.3	22.5	23.1	3.9	9.8	21.1	0.0	21.8	
MLAT	-9.00	4.18	16.27	28.50	41.98	58.87	79.25	-6.29	*****	0.00	4.51	HRS
INVLAT	61.0	62.1	63.6	65.4	68.2	73.2	83.8	15.2	62.1	0.0	60.4	DEGS

DE RMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Sun Sep 26 08:17:54 1993

82/097 07-APR 0000:00 - 0800:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Sun Sep 26 08:19:36 1993

82/097 07-APR 0715:00 - 1515:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

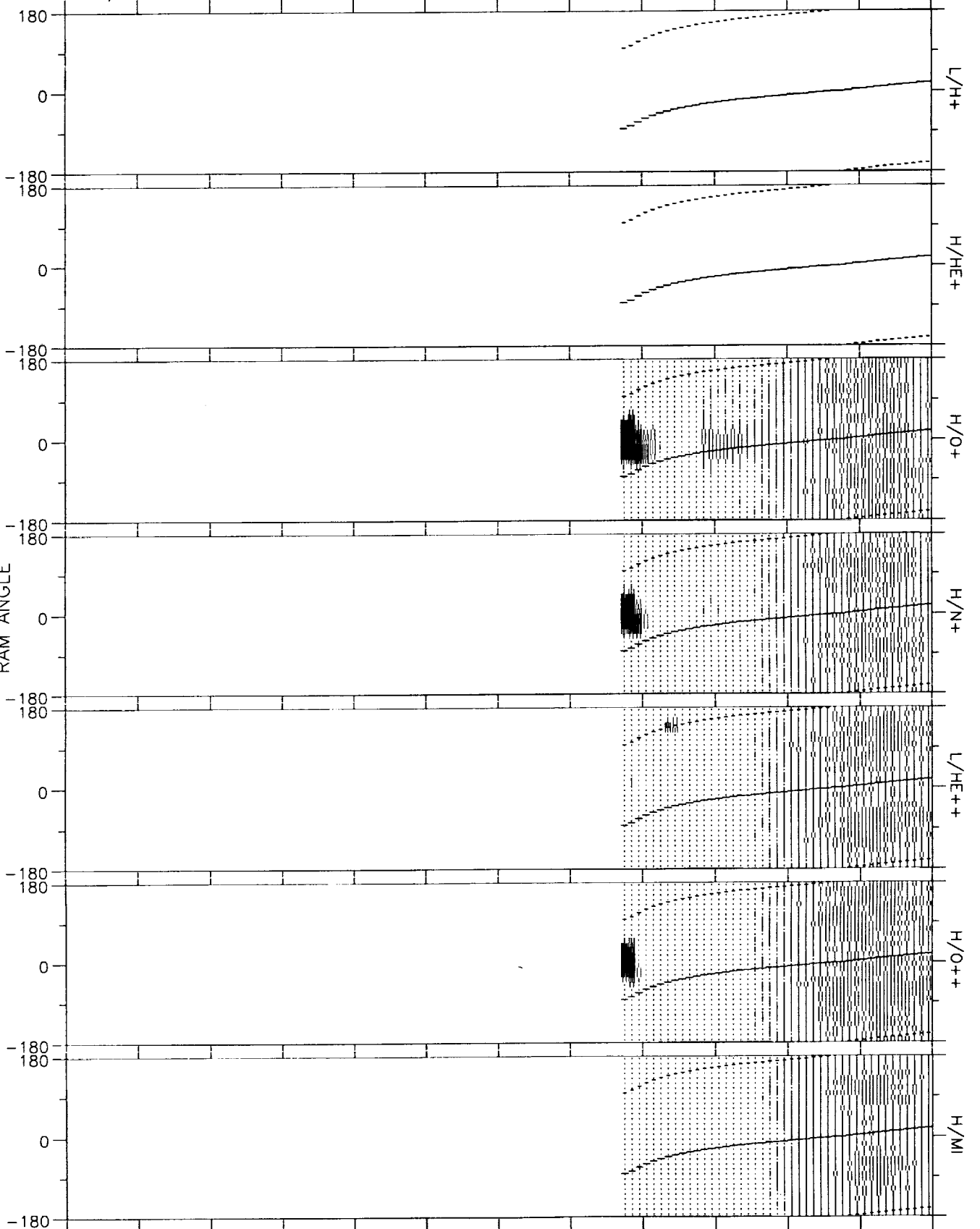
5.0

2.0

1.0

0.0

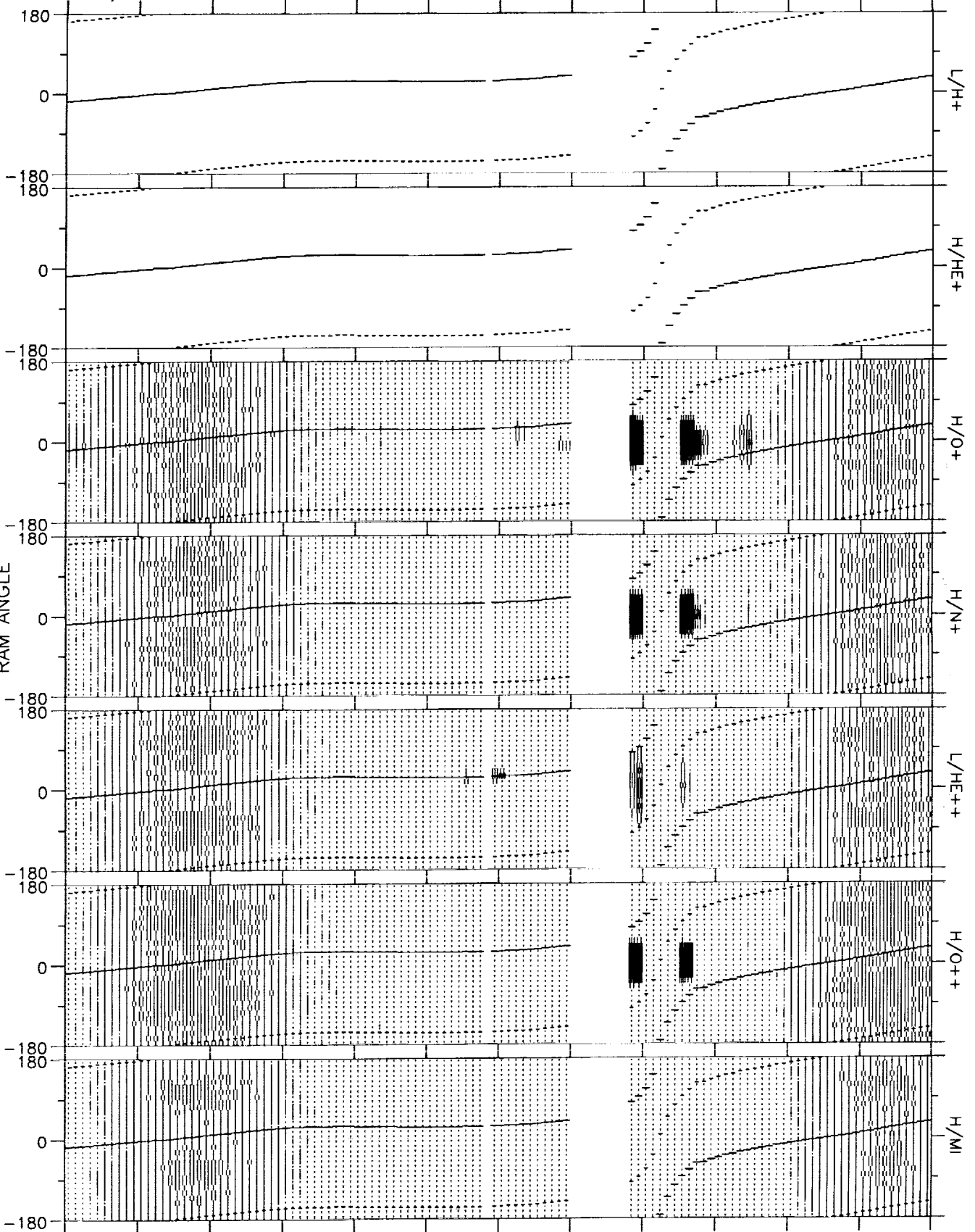
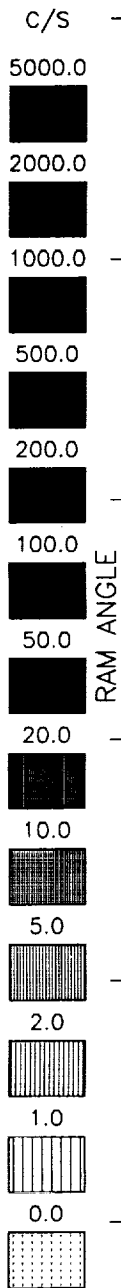
RAM ANGLE



TIME	0000	0000	0000	0000	0000	0000	0000	1235	1315	1355	1435	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.1	3.9	4.4	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.7	4.8	4.3	4.4	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.7	21.7	21.6	21.6	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****	****	****	-6.44	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.5	62.9	61.1	61.5	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL.ALL (V1.0)
Sun Sep 26 08:21:04 1993

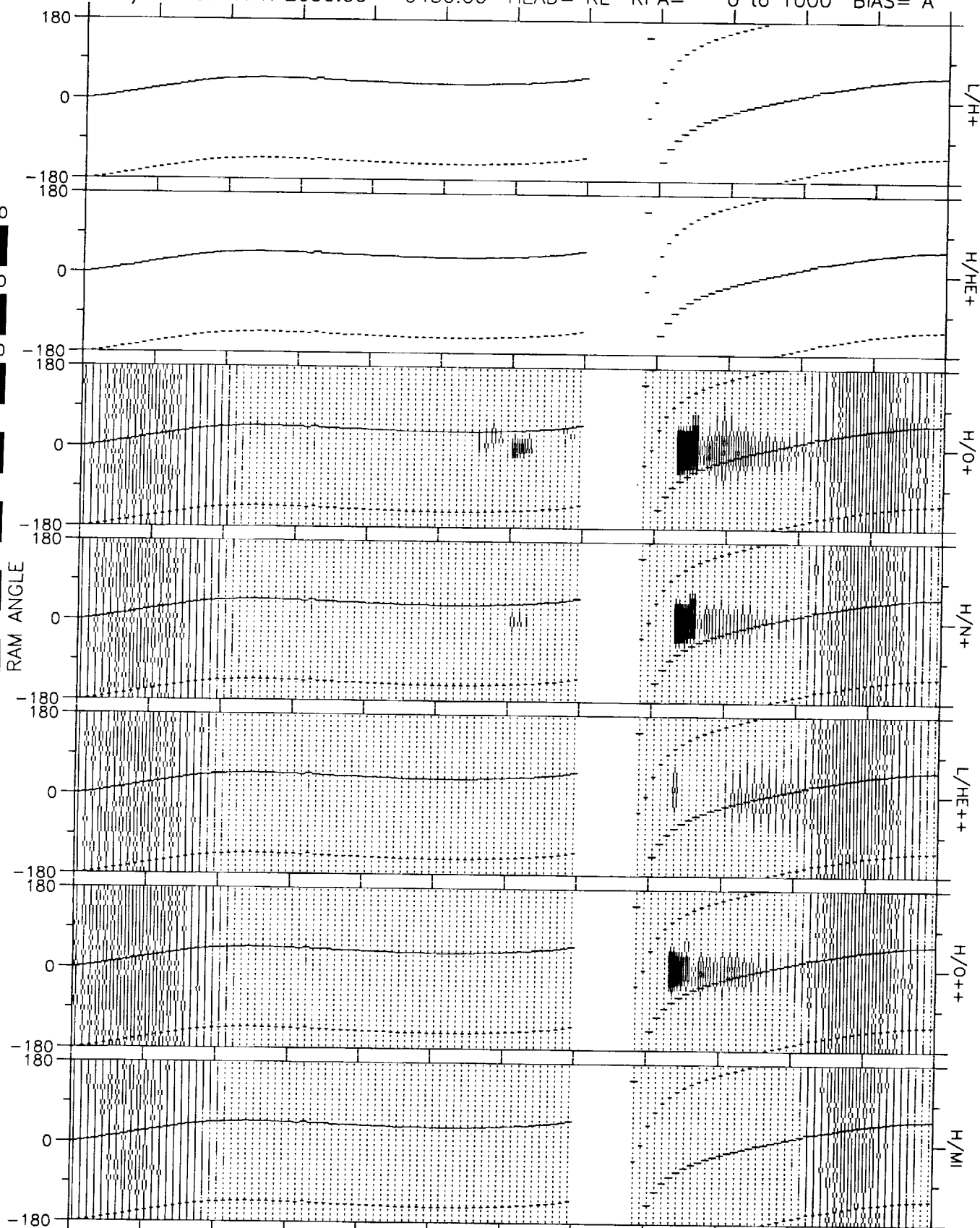
82/097 07-APR 1330:00 - 2130:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1410	1450	1530	1610	1650	1730	0000	1850	1930	2010	2050	DEGS
RE	4.1	4.5	4.7	4.5	4.2	3.5	0.0	1.1	2.0	3.2	4.0	HHMM
L	4.3	4.5	4.8	5.2	6.0	8.1	0.0	1.2	7.7	4.0	4.1	RE
MLT	21.6	21.6	21.7	21.8	22.0	22.4	0.0	9.6	20.5	21.4	21.7	
MLAT	*****	-2.13	8.81	20.02	32.70	47.90	0.00	13.80	*****	*****	-4.65	HRS
INVLAT	61.2	61.8	62.7	63.9	65.8	69.4	0.0	22.4	68.9	59.9	60.4	DEGS

DE RMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Sun Sep 26 08:23:09 1993

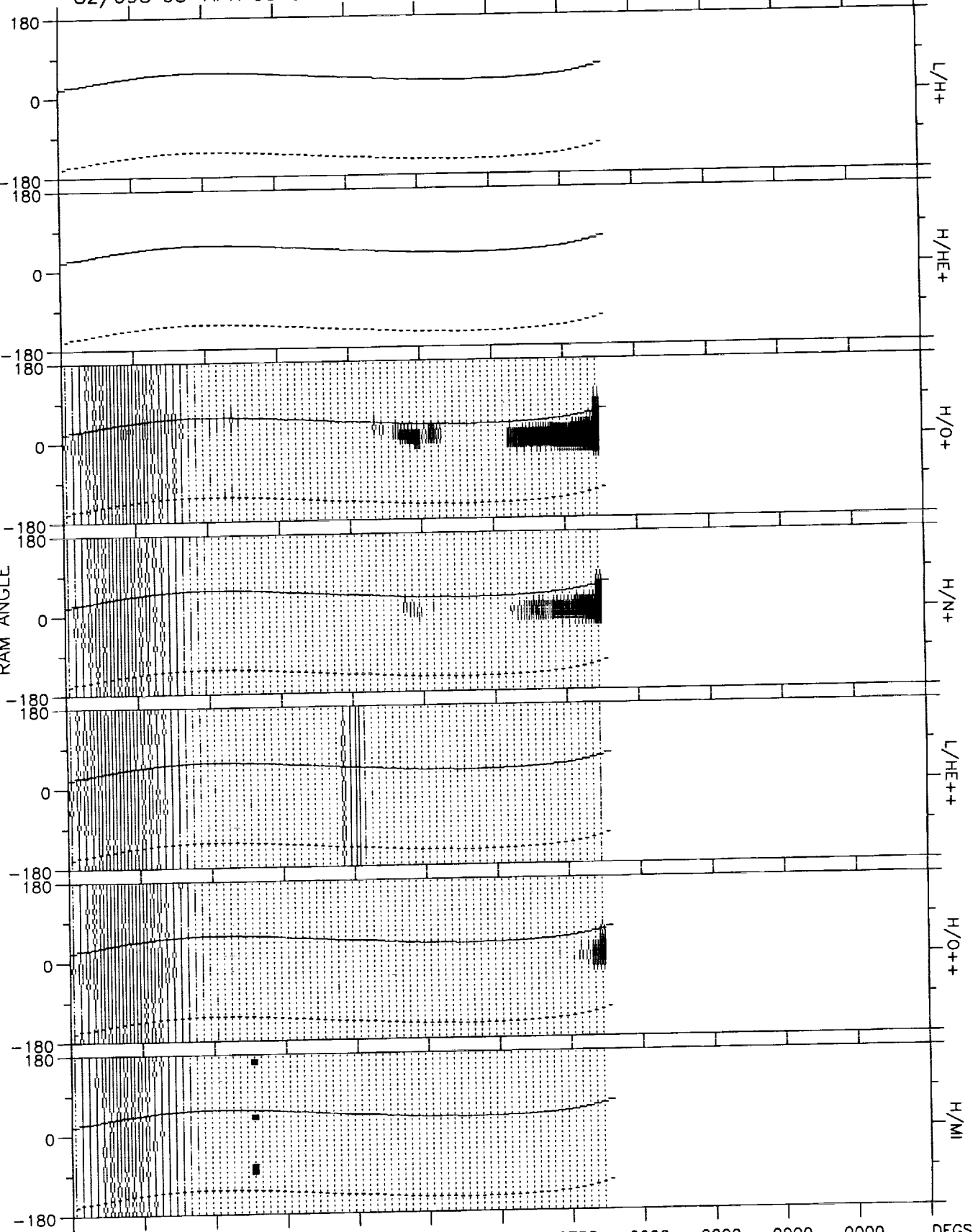
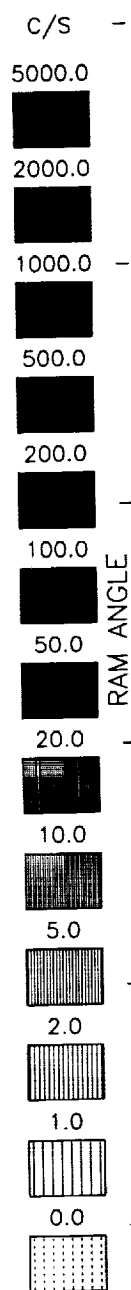
82/097 07-APR 2030:00 - 0430:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	2110	2150	2230	2310	2350	0030	0000	0150	0230	0310	0350	DEGS
RE	4.3	4.6	4.7	4.5	4.0	3.3	0.0	1.1	2.3	3.4	4.1	HHMM
L	4.3	4.9	5.8	7.4	10.8	27.6	0.0	2.3	3.5	3.5	4.2	RE
MLT	21.8	21.9	22.0	22.2	22.3	22.7	0.0	9.7	21.7	21.7	21.6	
MLAT	2.83	15.94	27.96	40.12	53.73	71.56	0.00	*****	*****	-8.10	7.08	HRS
INVLAT	61.2	63.3	65.6	68.4	72.2	79.0	0.0	48.3	57.6	57.7	60.9	DEGS

DE RMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Sun Sep 26 08:25:15 1993

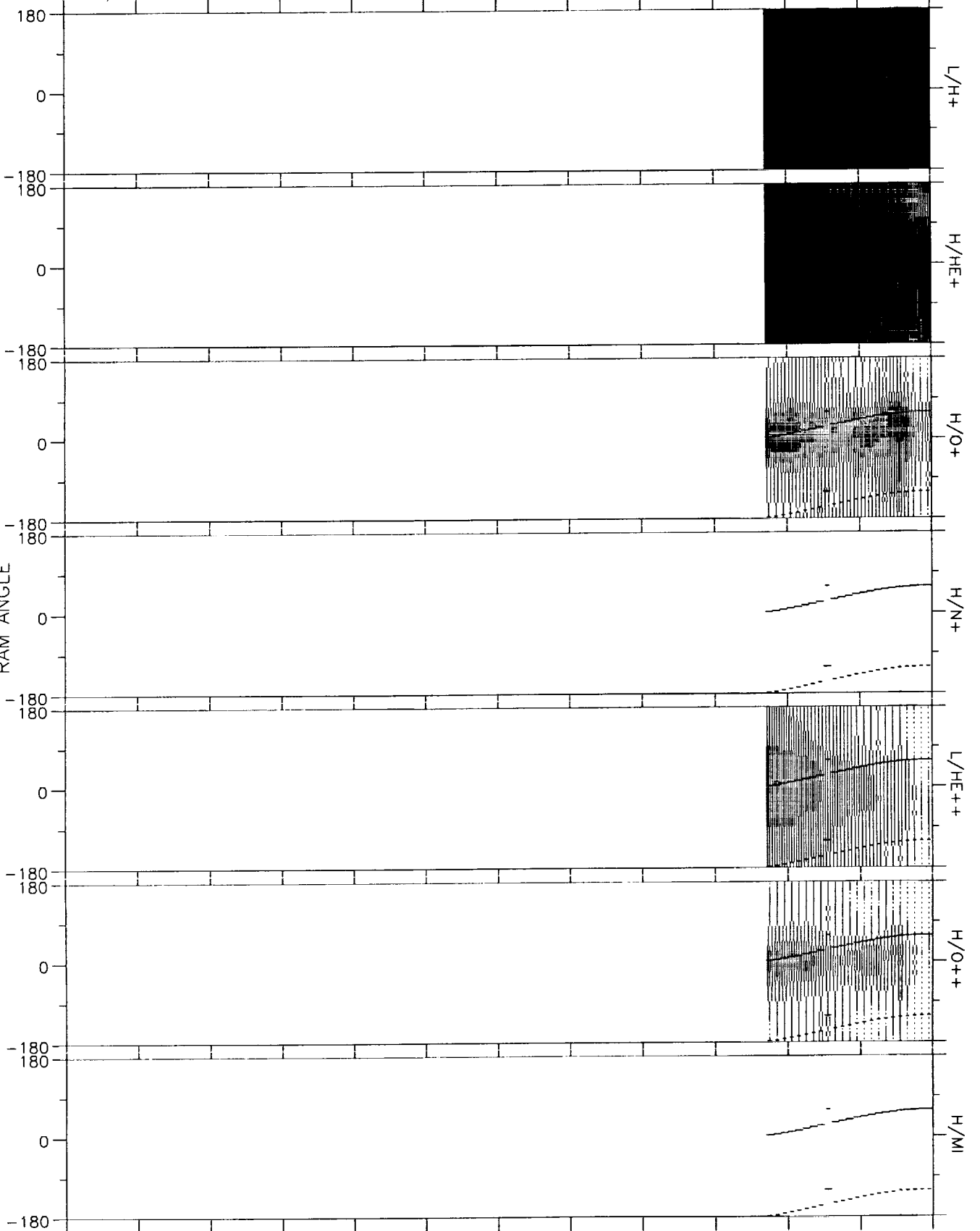
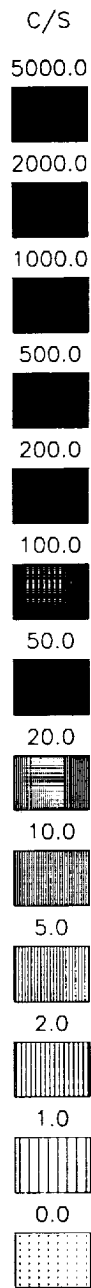
82/098 08-APR 0315:00 - 1115:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0355	0435	0515	0555	0635	0715	0755	0000	0000	0000	0000	DEGS
RE	4.2	4.6	4.7	4.5	4.1	3.4	2.3	0.0	0.0	0.0	0.0	HHMM
L	4.3	5.1	6.0	7.1	8.7	13.6	82.1	0.0	0.0	0.0	0.0	RE
MLT	21.6	21.5	21.4	21.2	20.9	20.3	16.3	0.0	0.0	0.0	0.0	HRS
MLAT	8.63	19.22	28.28	37.04	46.87	59.98	78.47	0.00	0.00	0.00	0.00	DEGS
INVLAT	61.2	63.8	66.0	67.9	70.2	74.3	83.7	0.0	0.0	0.0	0.0	

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Tue Sep 21 12:43:21 1993

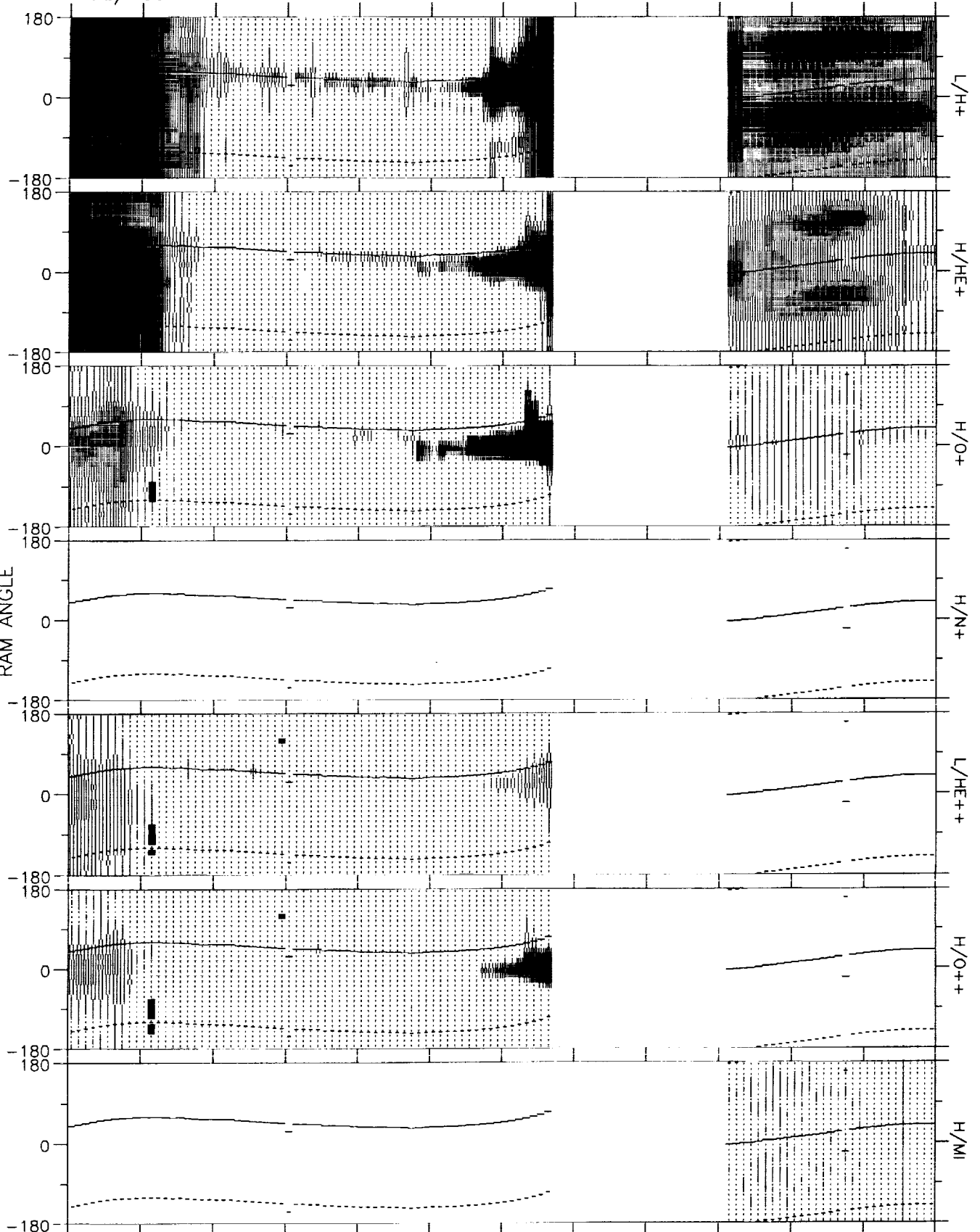
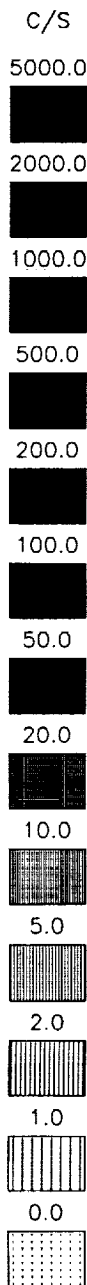
82/102 12-APR 1700:00 - 0100:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	2340	0020	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	4.2	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	4.4	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.3	21.4	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-7.67	7.97	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.9	61.5	DEGS

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Tue Sep 21 12:45:16 1993

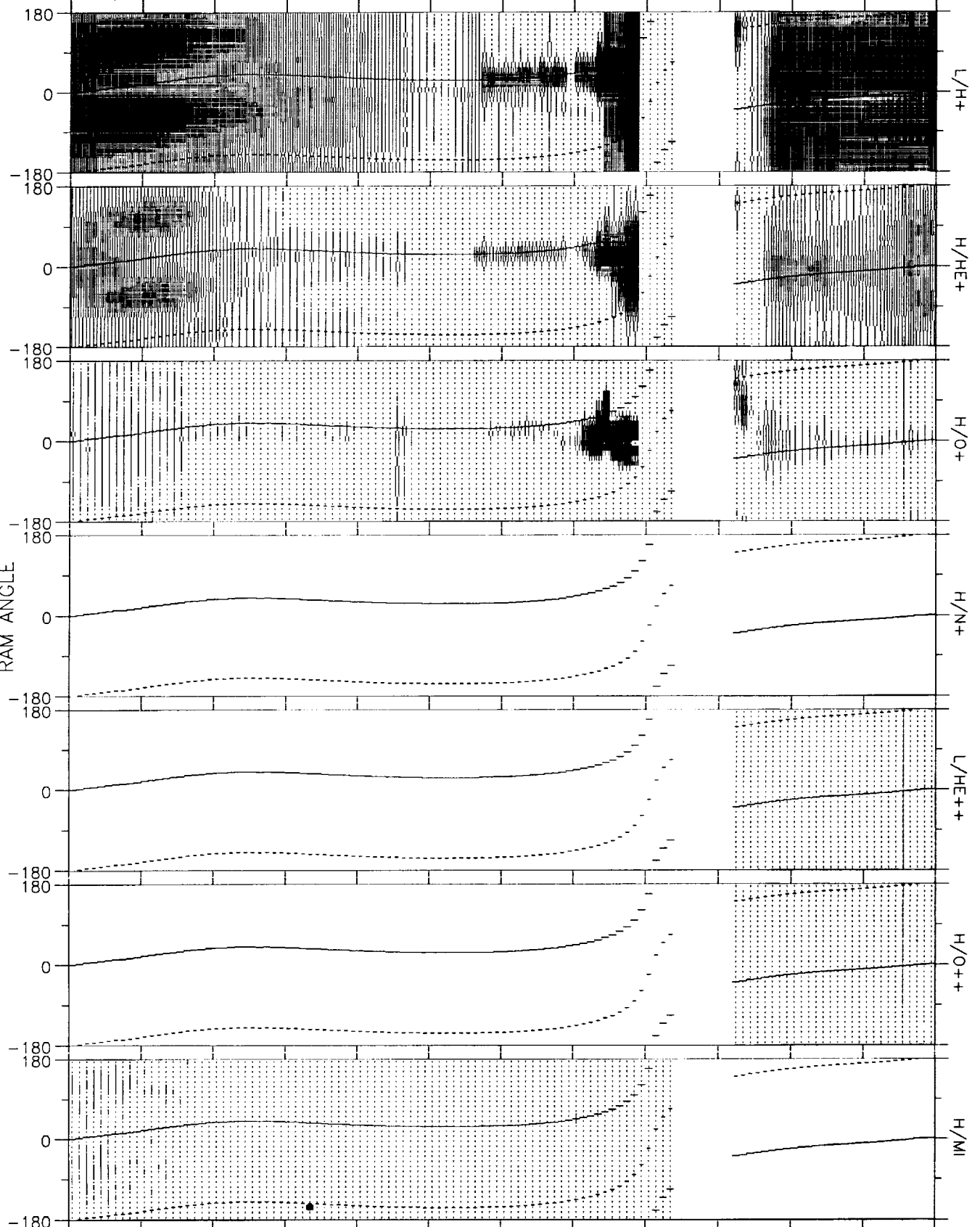
82/103 13-APR 0015:00 - 0815:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0055	0135	0215	0255	0335	0415	0000	0000	0000	0655	0735	DEGS
RE	4.5	4.7	4.5	4.1	3.4	2.4	0.0	0.0	0.0	4.0	4.5	HHMM
L	5.2	6.3	7.8	10.7	20.8	100.0	0.0	0.0	0.0	4.0	4.5	RE
MLT	21.4	21.4	21.3	21.1	20.6	14.0	0.0	0.0	0.0	21.4	21.2	HRS
MLAT	18.73	29.62	40.15	51.59	66.14	83.03	0.00	0.00	0.00	-4.74	5.53	DEGS
INVLAT	63.8	66.4	69.1	72.2	77.3	86.7	0.0	0.0	0.0	60.1	61.8	

DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Tue Sep 21 12:47:51 1993

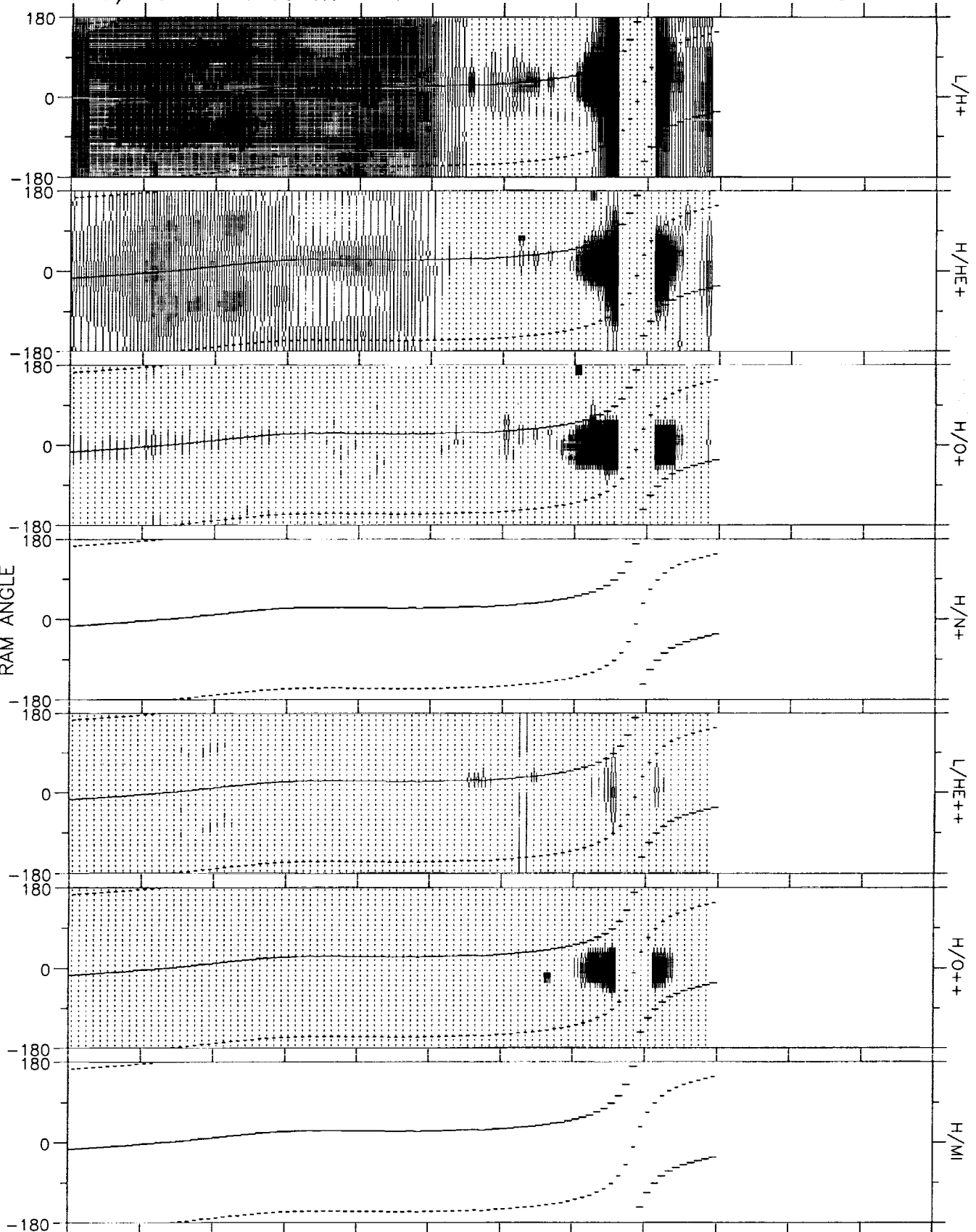
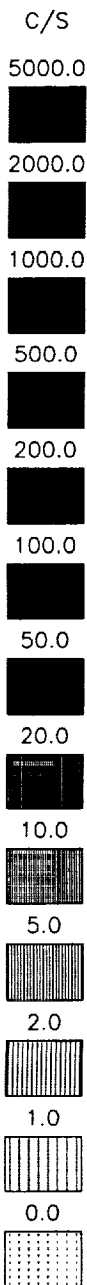
82/103 13-APR 0630:00 - 1430:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0710	0750	0830	0910	0950	1030	1110	1150	0000	1310	1350	DEGS
RE	4.2	4.6	4.7	4.5	4.1	3.3	2.2	1.1	0.0	3.3	4.1	HHMM
L	4.2	4.6	5.0	5.5	6.2	8.4	58.4	1.2	0.0	4.8	4.4	RE
MLT	21.3	21.1	21.0	20.9	20.7	20.4	18.9	9.1	0.0	21.2	21.2	
MLAT	-0.53	8.85	17.12	25.62	35.75	50.15	76.74	-5.15	0.00	****	****	HRS
INVLAT	60.7	62.3	63.5	64.7	66.2	69.8	82.5	22.6	0.0	62.7	61.5	DEGS

DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Tue Sep 21 12:50:21 1993

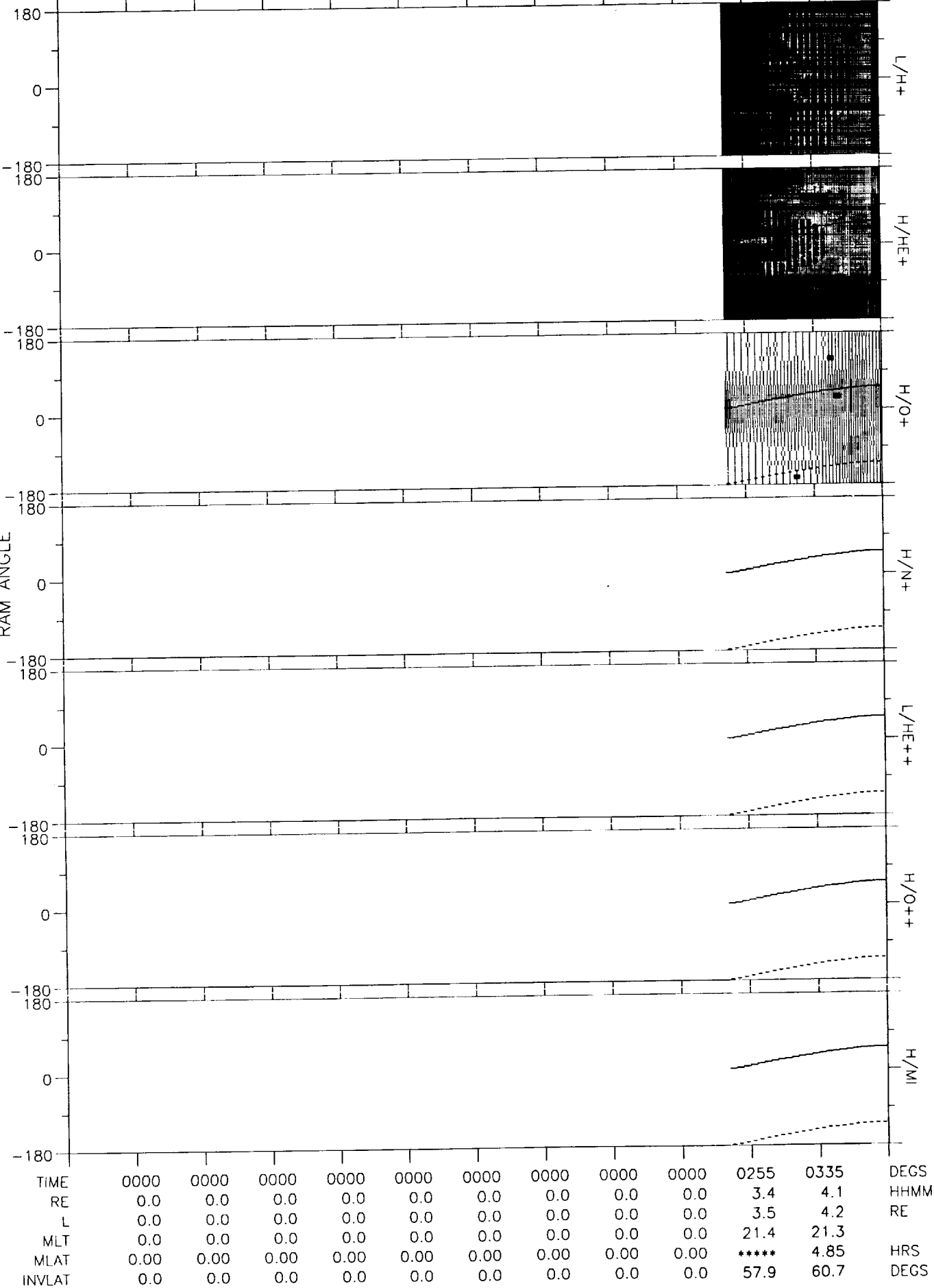
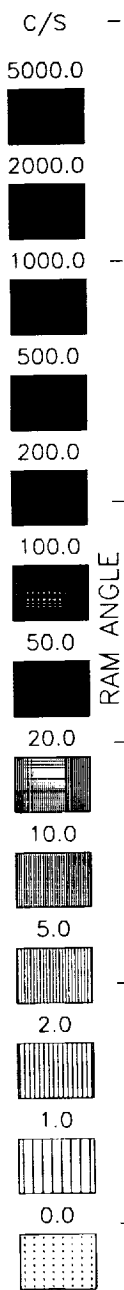
82/103 13-APR 1330:00 - 2130:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1410	1450	1530	1610	1650	1730	1810	1850	0000	0000	0000	DEGS
RE	4.3	4.6	4.7	4.4	3.9	3.1	1.9	1.2	0.0	0.0	0.0	HHMM
L	4.4	4.6	4.8	5.2	6.2	9.9	67.9	3.4	0.0	0.0	0.0	RE
MLT	21.2	21.2	21.3	21.5	21.8	22.3	5.0	10.4	0.0	0.0	0.0	
MLAT	*****	0.05	11.04	22.69	36.42	55.12	78.70	*****	0.00	0.00	0.00	HRS
INVLAT	61.5	62.1	62.9	64.1	66.3	71.5	83.0	57.0	0.0	0.0	0.0	DEGS

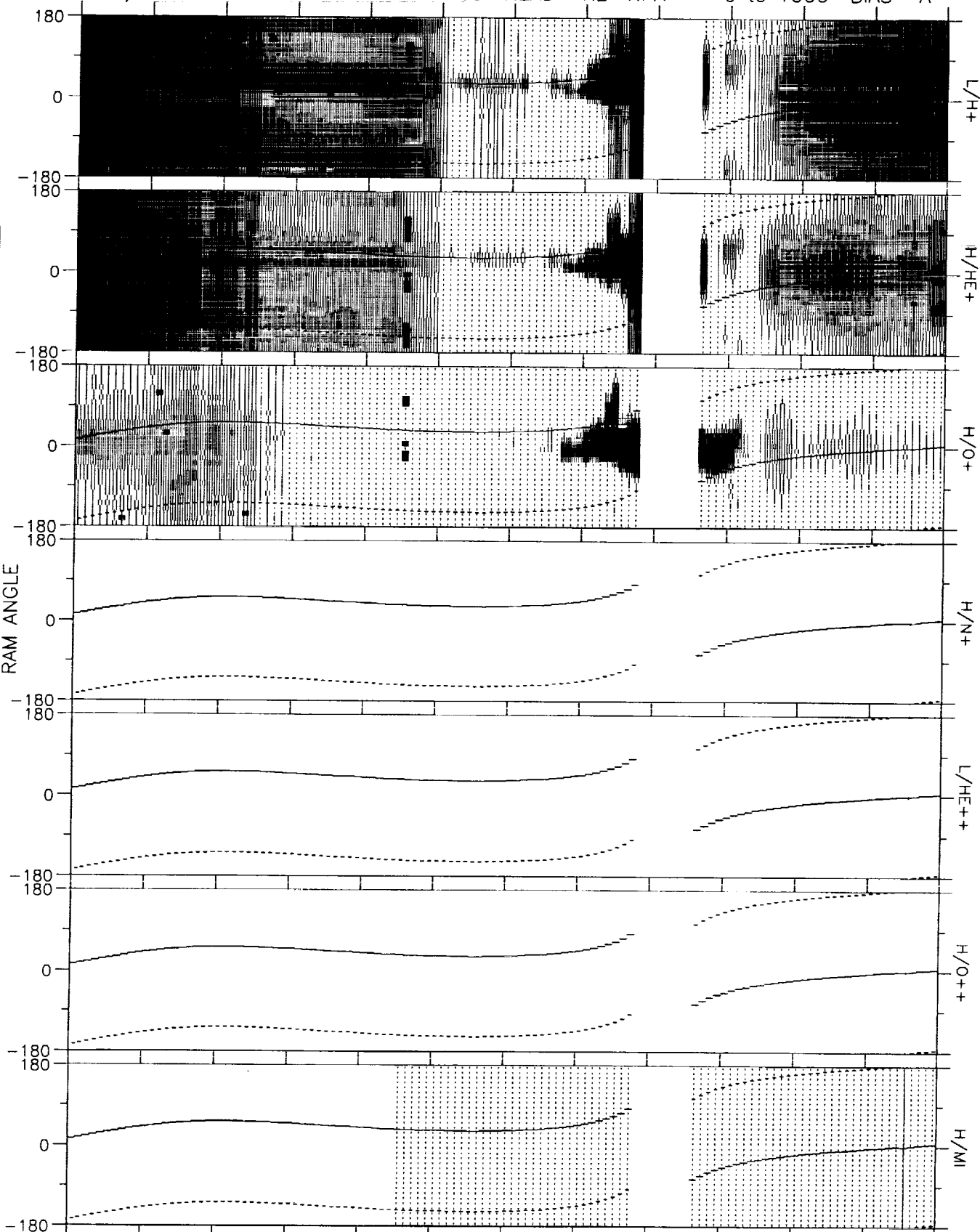
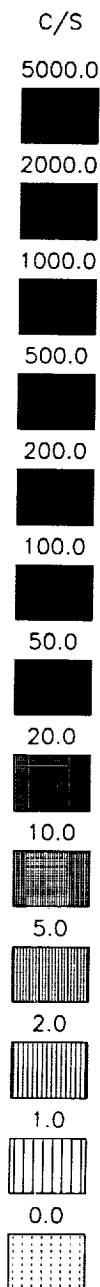
DE RMS SPIN SUMMARY
SPINRADIALALL (V1.0)
Tue Sep 21 12:52:45 1993

82/103 13-APR 2015:00 - 0415:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN-RADIALALL (V1.0)
Tue Sep 21 12:54:32 1993

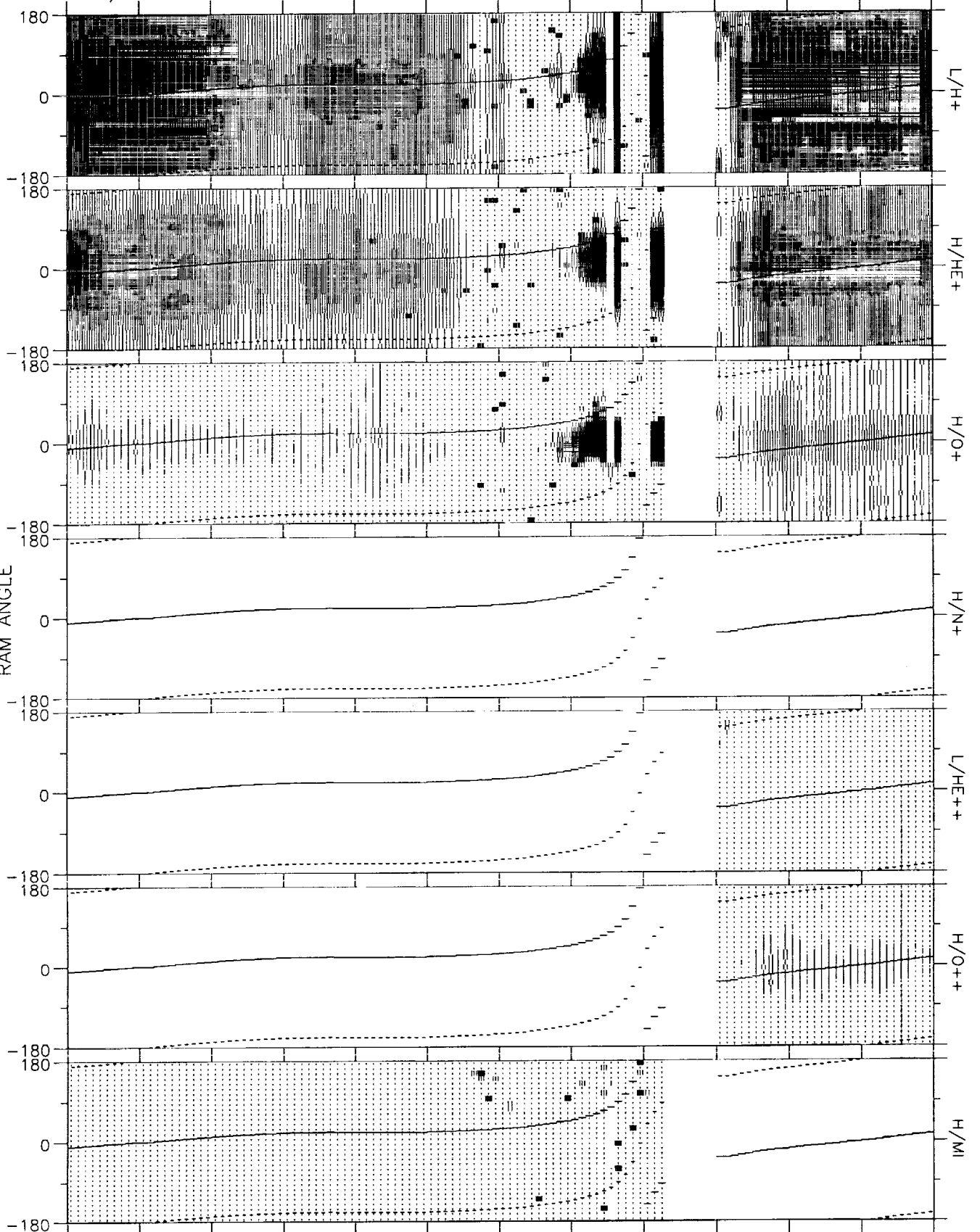
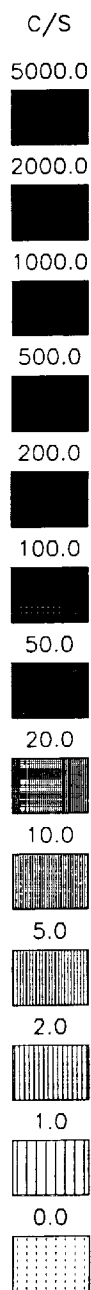
82/104 14-APR 0300:00 - 1100:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0340	0420	0500	0540	0620	0700	0740	0000	0900	0940	1020	DEGS
RE	4.2	4.6	4.7	4.5	4.1	3.4	2.3	0.0	2.1	3.3	4.0	HHMM
L	4.3	5.0	5.8	6.6	8.0	11.9	71.0	0.0	8.2	4.3	4.3	RE
MLT	21.3	21.2	21.0	20.8	20.5	20.0	16.7	0.0	22.4	21.5	21.2	
MLAT	6.39	16.94	25.93	34.64	44.44	57.61	77.77	0.00	*****	*****	*****	HRS
INVLAT	61.1	63.4	65.4	67.2	69.3	73.1	83.2	0.0	69.5	61.2	61.0	DEGS

DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Tue Sep 21 12:57:40 1993

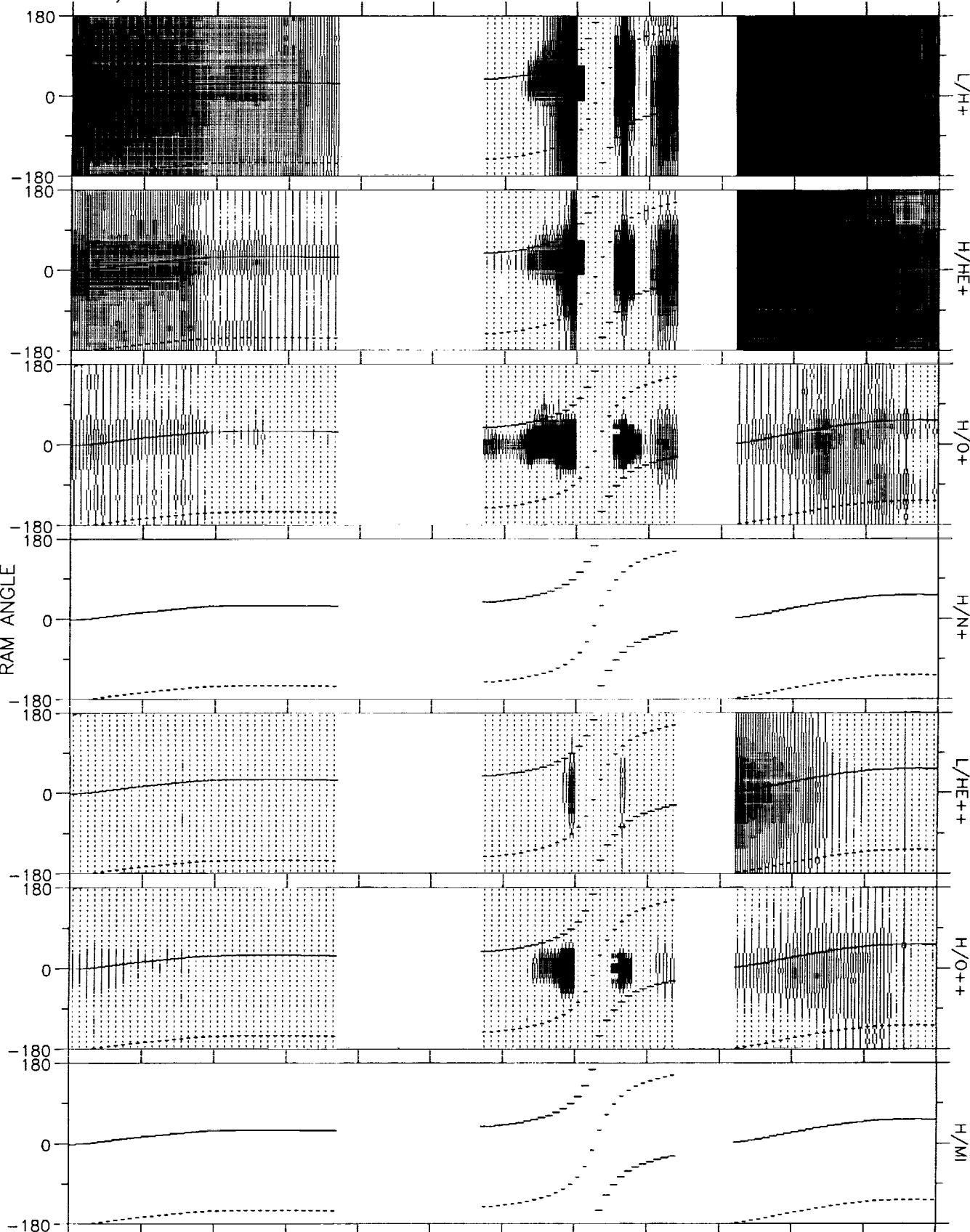
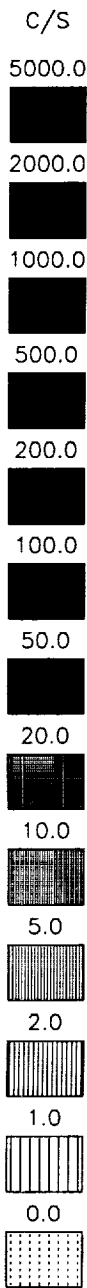
82/104 14-APR 1000:00 - 1800:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1040	1120	1200	1240	1320	1400	1440	1520	1600	1640	1720	DEGS
RE	4.3	4.6	4.7	4.5	4.0	3.2	2.0	1.1	2.4	3.5	4.2	HHMM
L	4.3	4.5	4.8	5.1	5.7	8.3	100.0	1.8	7.5	4.4	4.3	RE
MLT	21.2	21.1	21.0	21.0	21.0	21.2	23.1	9.4	20.6	21.0	21.2	
MLAT	-8.64	1.18	10.46	20.50	32.69	50.16	84.49	*****	*****	*****	*****	HRS
INVLAT	61.3	62.0	62.7	63.6	65.3	69.7	87.5	40.9	68.6	61.7	61.3	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL.ALL (V1.0)
Tue Sep 21 13:00:29 1993

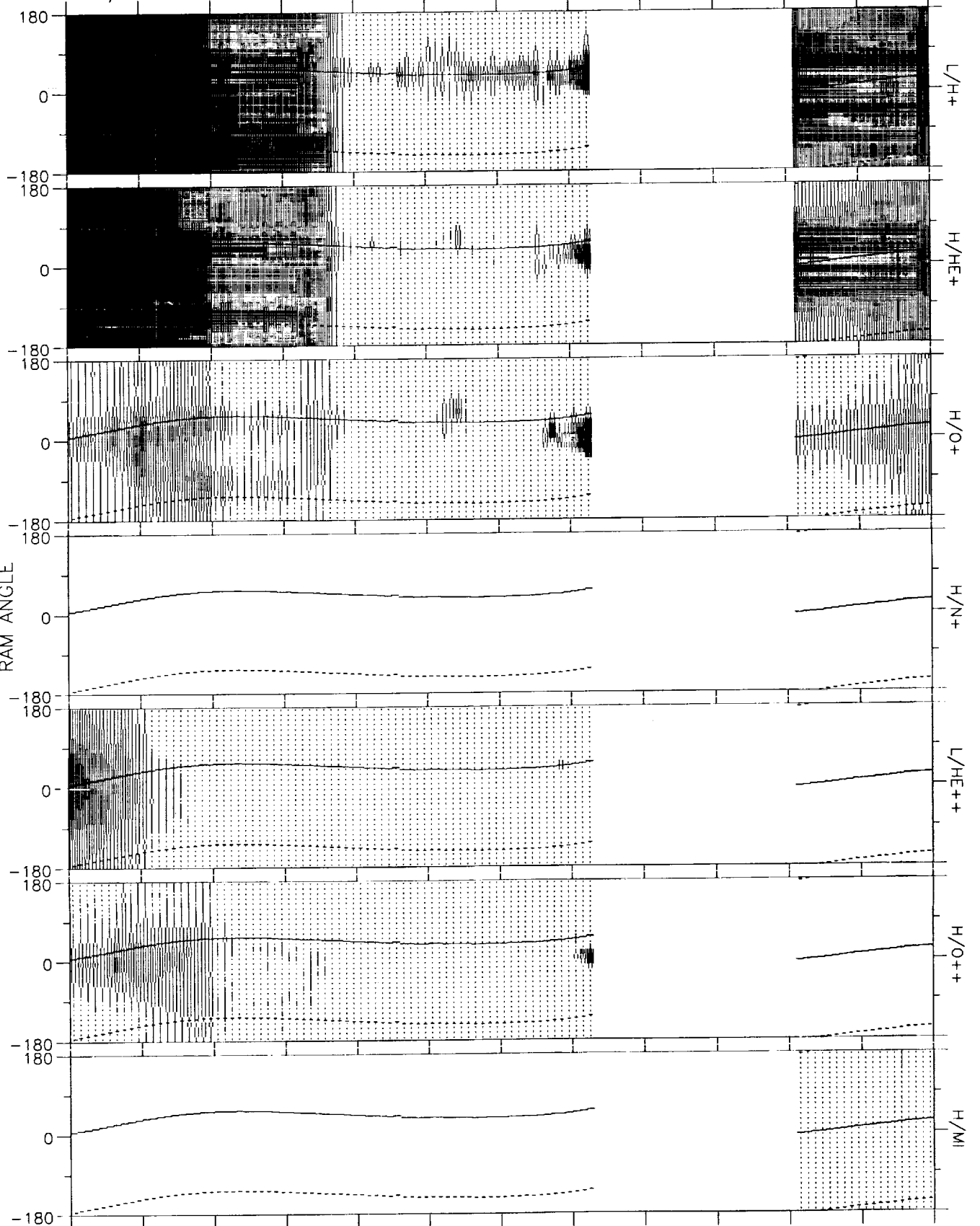
82/104 14-APR 1715:00 - 0115:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1755	1835	1915	0000	0000	2115	2155	2235	0000	2355	0035	DEGS
RE	4.5	4.7	4.6	0.0	0.0	2.5	1.2	1.9	0.0	3.9	4.4	HHMM
L	4.5	4.9	5.5	0.0	0.0	49.3	1.3	6.0	0.0	4.0	4.8	RE
MLT	21.3	21.5	21.7	0.0	0.0	1.1	9.1	20.4	0.0	21.3	21.3	
MLAT	0.43	12.64	24.74	0.00	0.00	77.14	18.33	*****	0.00	0.13	13.67	HRS
INVLAT	61.9	63.1	64.7	0.0	0.0	81.8	28.1	66.0	0.0	60.0	62.7	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Tue Sep 21 13:03:34 1993

82/104 14-APR 2330:00 - 0730:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0010	0050	0130	0210	0250	0330	0410	0000	0000	0000	0650	DEGS
RE	4.2	4.5	4.7	4.5	4.1	3.4	2.4	0.0	0.0	0.0	4.0	HHMM
L	4.3	5.1	6.2	7.6	10.4	19.6	100.0	0.0	0.0	0.0	4.0	RE
MLT	21.4	21.3	21.3	21.2	21.0	20.5	14.3	0.0	0.0	0.0	21.2	
MLAT	5.63	18.09	28.95	39.46	50.86	65.39	83.16	0.00	0.00	0.00	-5.55	HRS
INVLAT	61.0	63.7	66.2	68.8	71.9	77.0	86.7	0.0	0.0	0.0	60.1	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIALALL (V1.0)
Tue Sep 21 13:06:25 1993

82/105 15-APR 0630:00 - 1430:00 HEAD= RL RPA= 0 to 1000 BIAS= A

C/S

5000.0

2000.0

1000.0

500.0

200.0

100.0

50.0

20.0

10.0

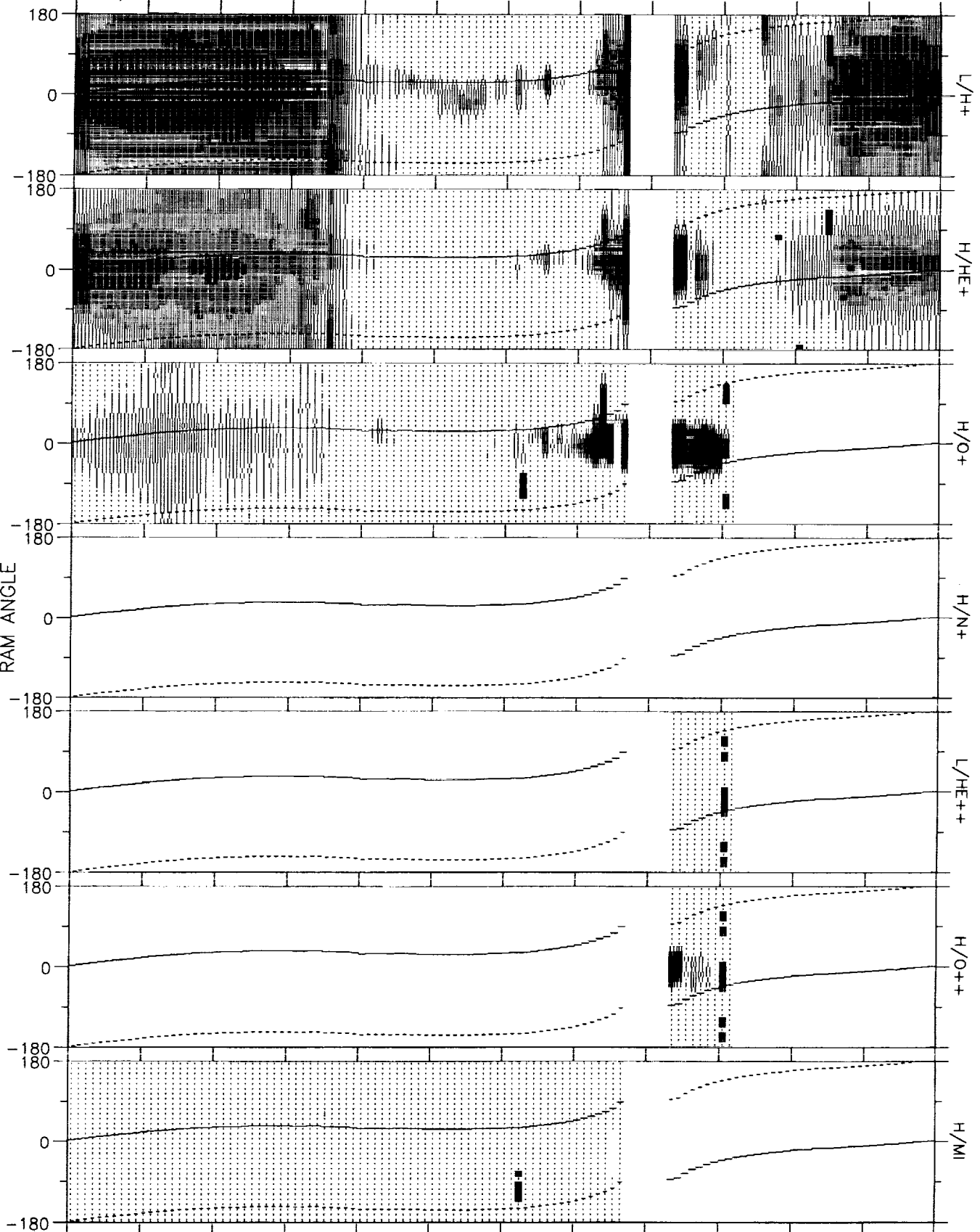
5.0

2.0

1.0

0.0

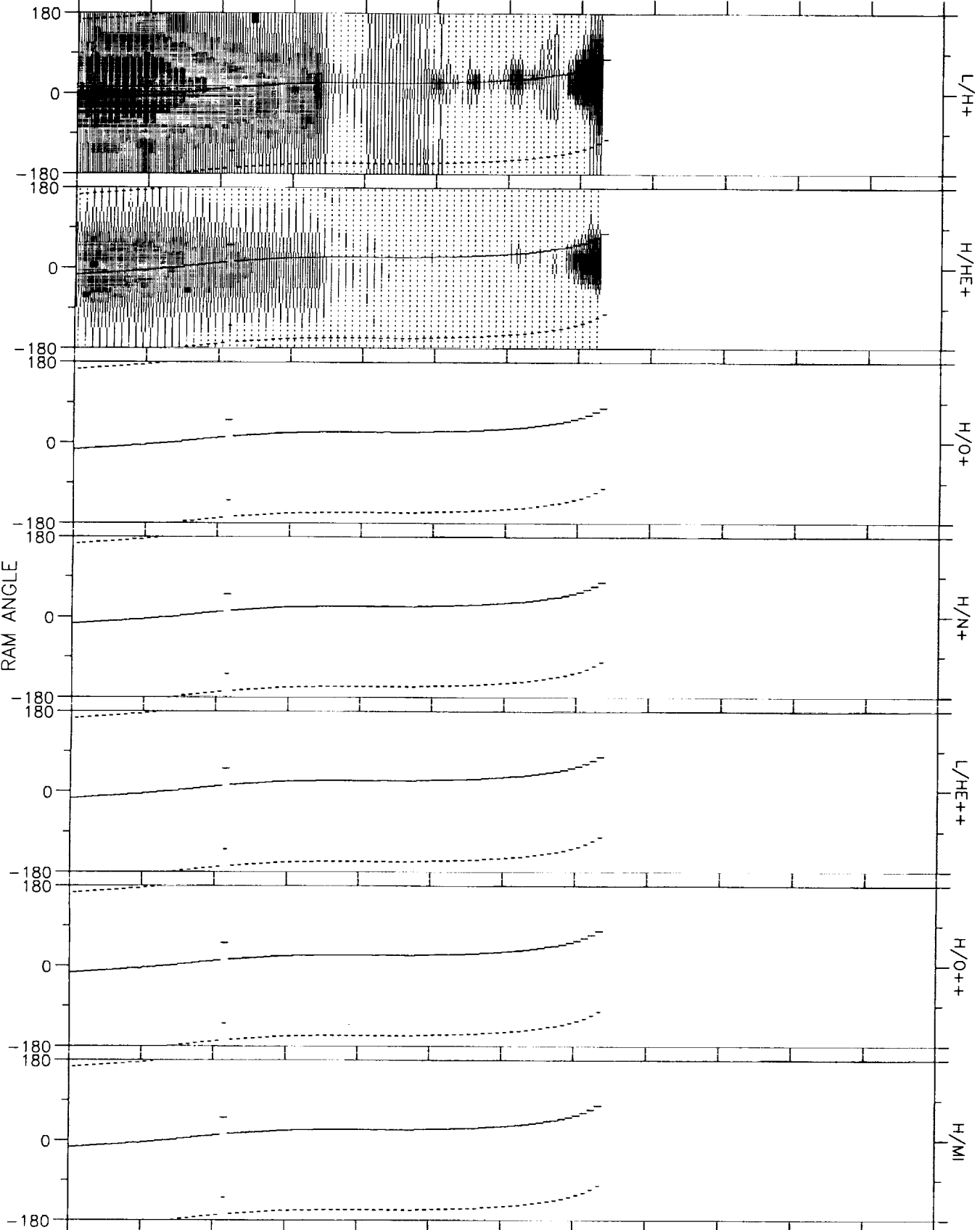
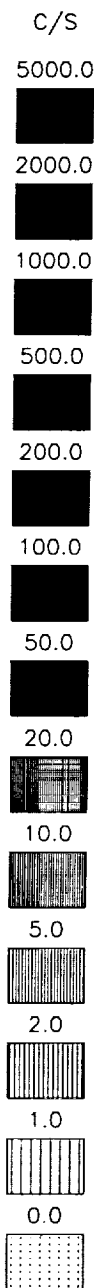
RAM ANGLE



TIME	0710	0750	0830	0910	0950	1030	1110	0000	1230	1310	1350	DEGS
RE	4.3	4.6	4.7	4.5	4.0	3.2	2.1	0.0	2.4	3.4	4.1	HHMM
L	4.2	4.7	5.0	5.5	6.2	8.7	100.0	0.0	9.5	4.7	4.4	RE
MLT	21.2	21.0	20.9	20.7	20.5	20.3	17.7	0.0	21.4	21.1	21.0	
MLAT	-0.06	9.09	17.33	25.95	36.44	51.73	80.73	0.00	****	****	****	HRS
INVLAT	60.9	62.4	63.6	64.7	66.3	70.2	84.7	0.0	71.1	62.6	61.6	DEGS

DE RMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Tue Sep 21 14:25:34 1993

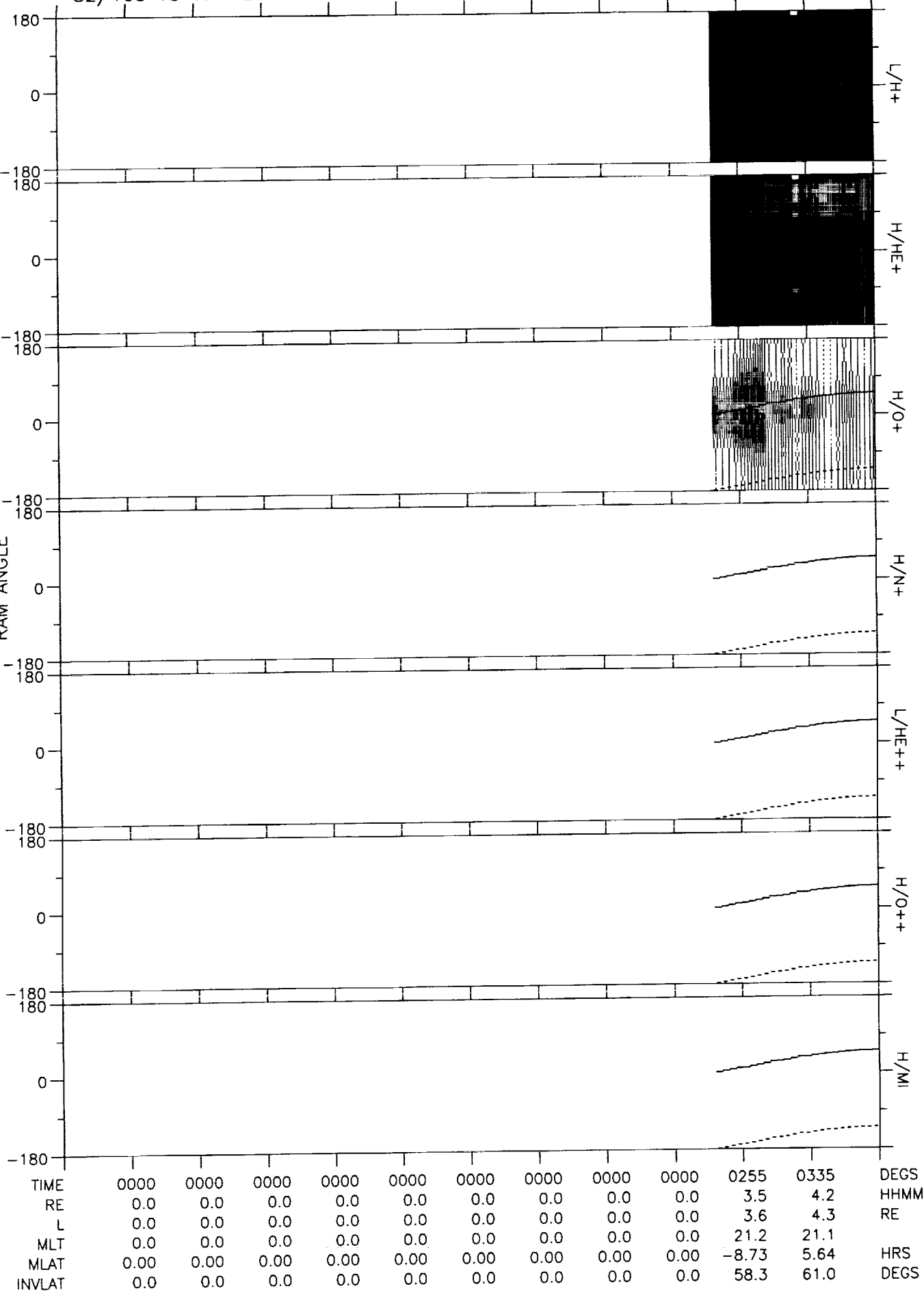
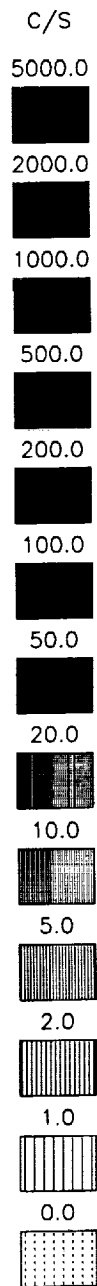
82/105 15-APR 1330:00 - 2130:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1410	1450	1530	1610	1650	1730	1810	0000	0000	0000	0000	DEGS
RE	4.4	4.6	4.6	4.4	3.9	3.0	1.7	0.0	0.0	0.0	0.0	HHMM
L	4.4	4.6	4.8	5.3	6.3	10.9	24.2	0.0	0.0	0.0	0.0	RE
MLT	21.0	21.1	21.2	21.4	21.7	22.3	6.7	0.0	0.0	0.0	0.0	
MLAT	*****	0.81	11.82	23.67	37.82	57.68	73.58	0.00	0.00	0.00	0.00	HRS
INVLAT	61.7	62.2	63.0	64.2	66.5	72.4	78.2	0.0	0.0	0.0	0.0	DEGS

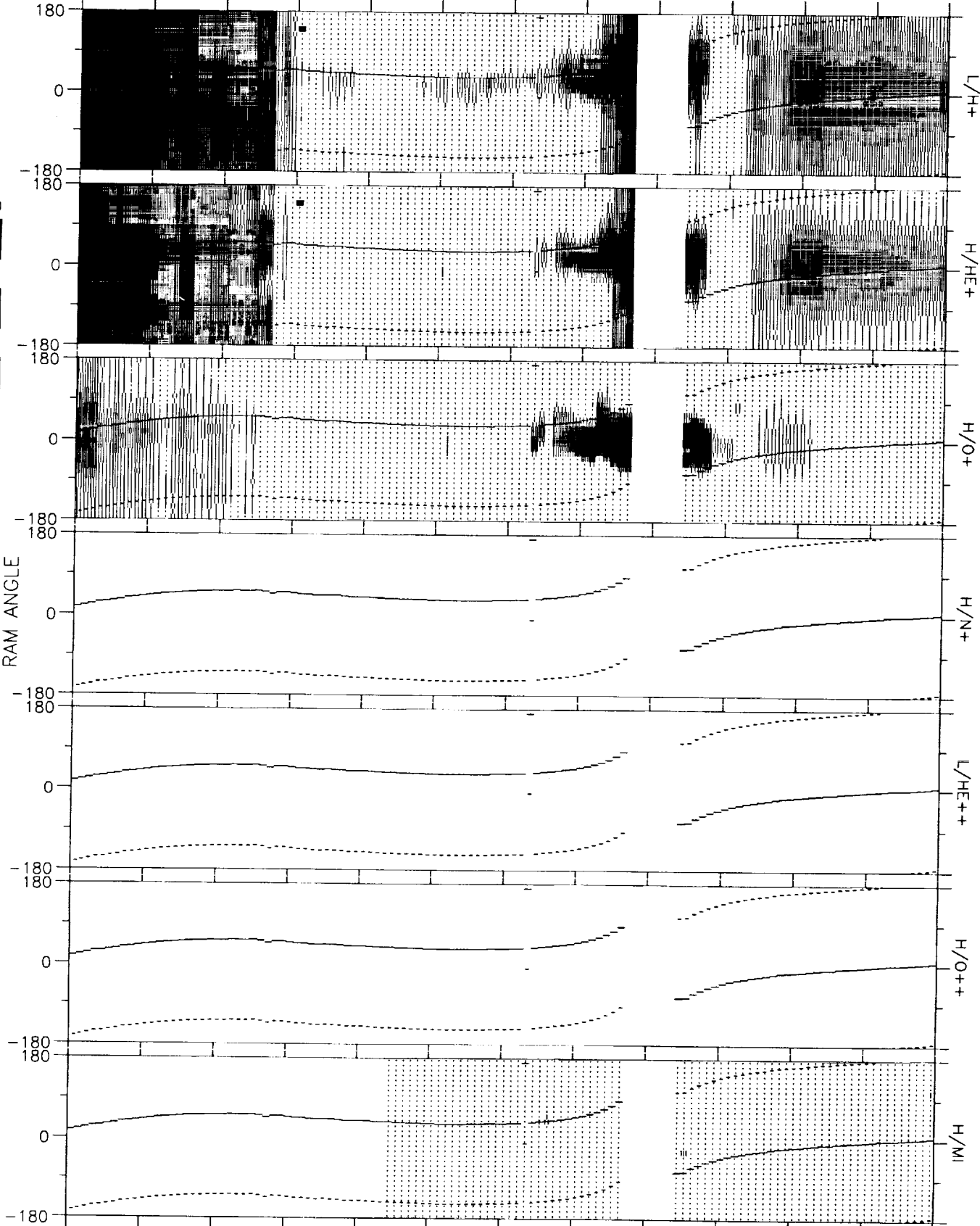
DE RIMS SPIN SUMMARY
SPIN/RADIAL ALL (V1.0)
Tue Sep 21 14:27:12 1993

82/105 15-APR 2015:00 - 0415:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Tue Sep 21 14:29:01 1993

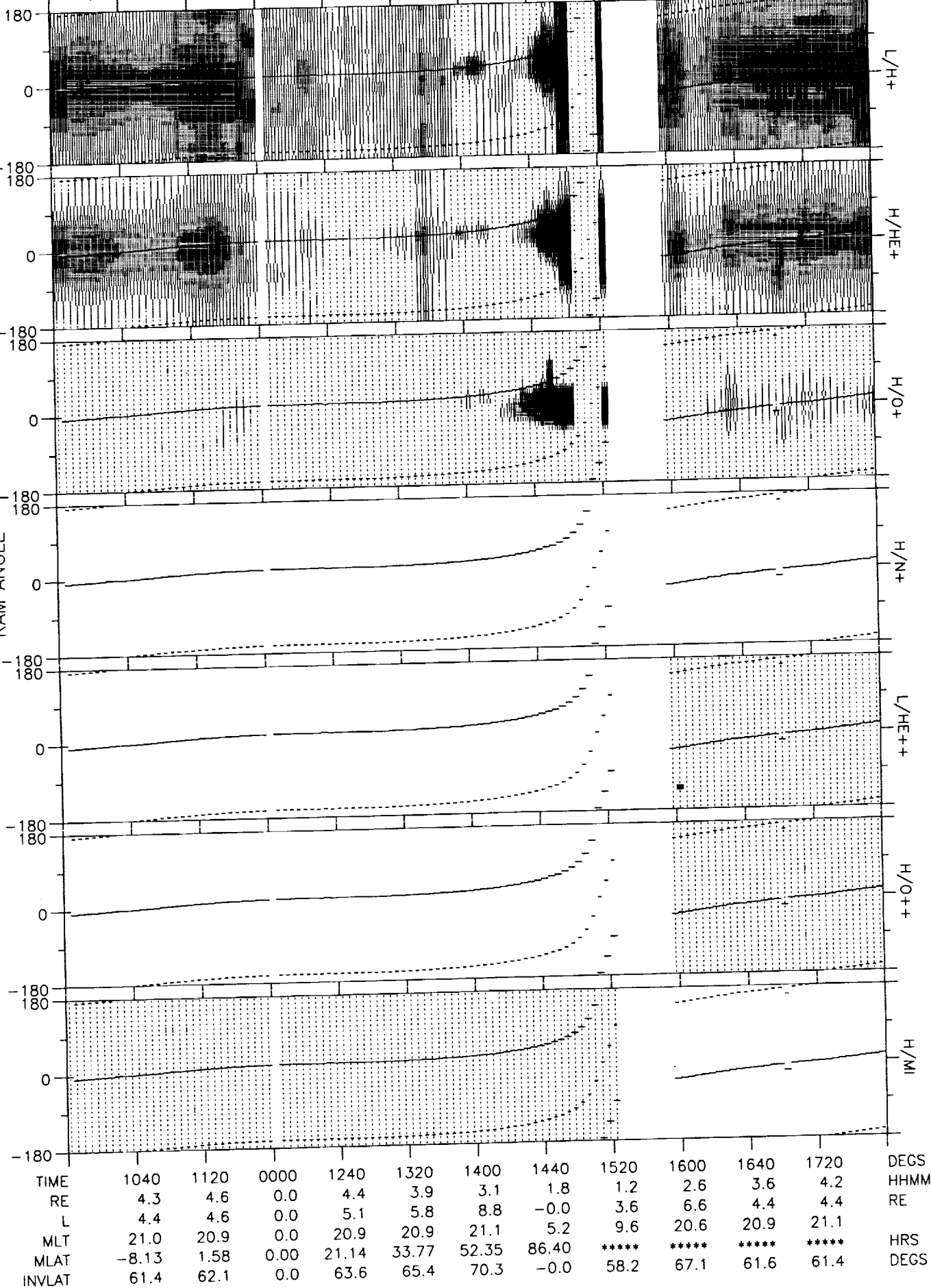
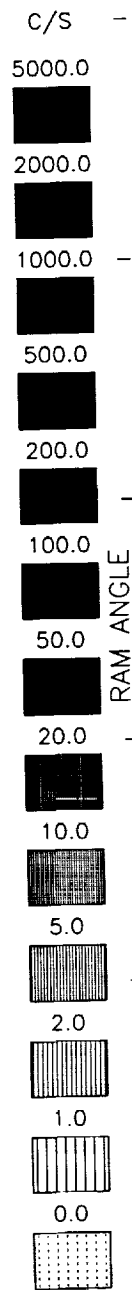
82/106 16-APR 0300:00 - 1100:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0340	0420	0500	0540	0620	0700	0740	0000	0900	0940	1020	DEGS
RE	4.2	4.6	4.7	4.5	4.0	3.3	2.1	0.0	2.3	3.4	4.1	HHMM
L	4.3	5.0	5.7	6.6	8.0	12.4	80.0	0.0	6.9	4.3	4.3	RE
MLT	21.1	21.0	20.9	20.7	20.4	19.8	15.1	0.0	22.0	21.3	21.1	
MLAT	7.08	17.33	25.60	34.99	45.02	58.91	78.60	0.00	*****	*****	*****	HRS
INVLAT	61.3	63.6	65.3	67.2	69.3	73.5	83.6	0.0	67.7	61.3	61.2	DEGS

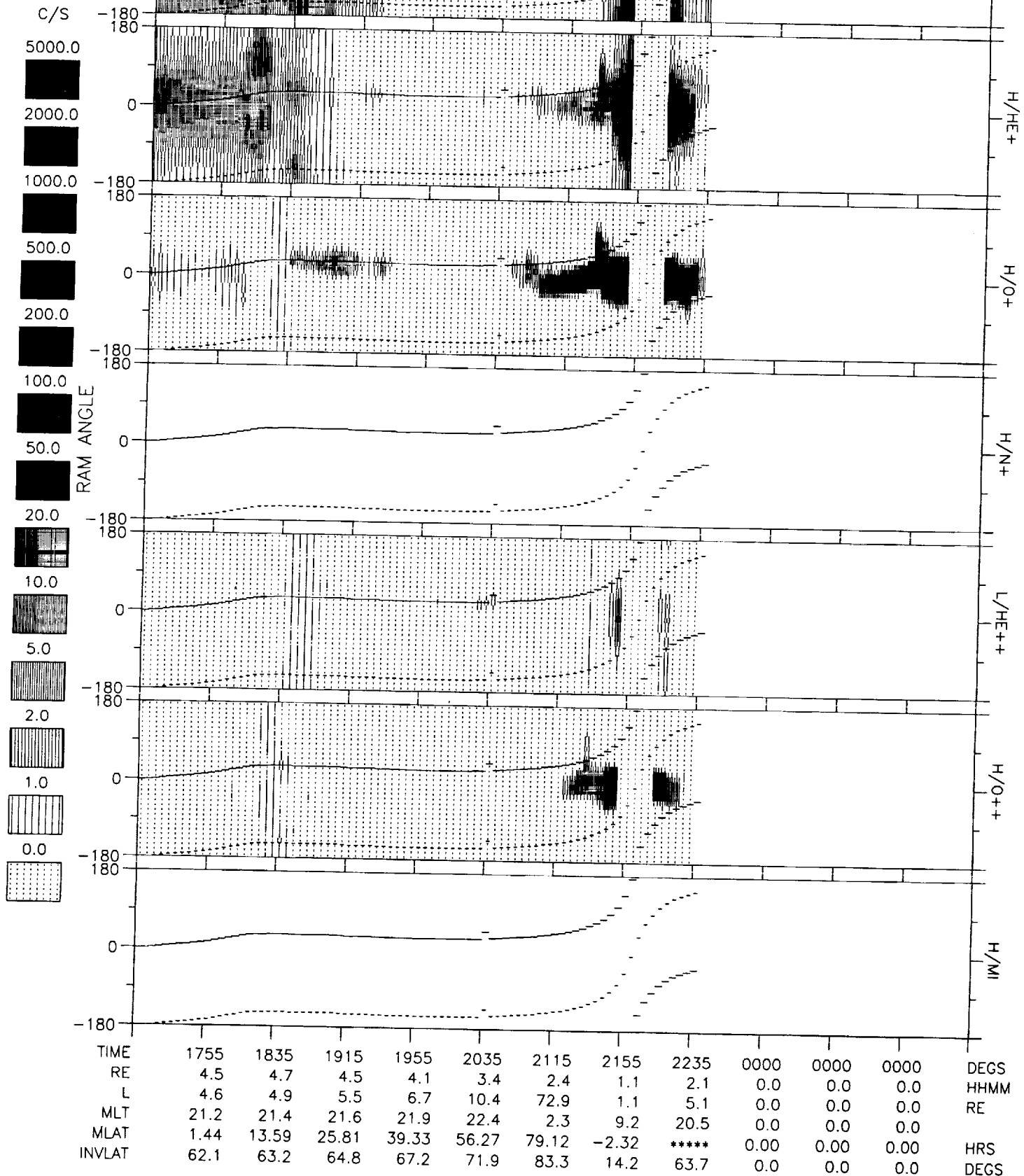
DE RINS SPIN SUMMARY
SPINRADIALCALL (V1.0)
Tue Sep 21 14:31:47 1993

82/106 16-APR 1000:00 - 1800:00 HEAD= RL RPA= 0 to 1000 BIAS= A



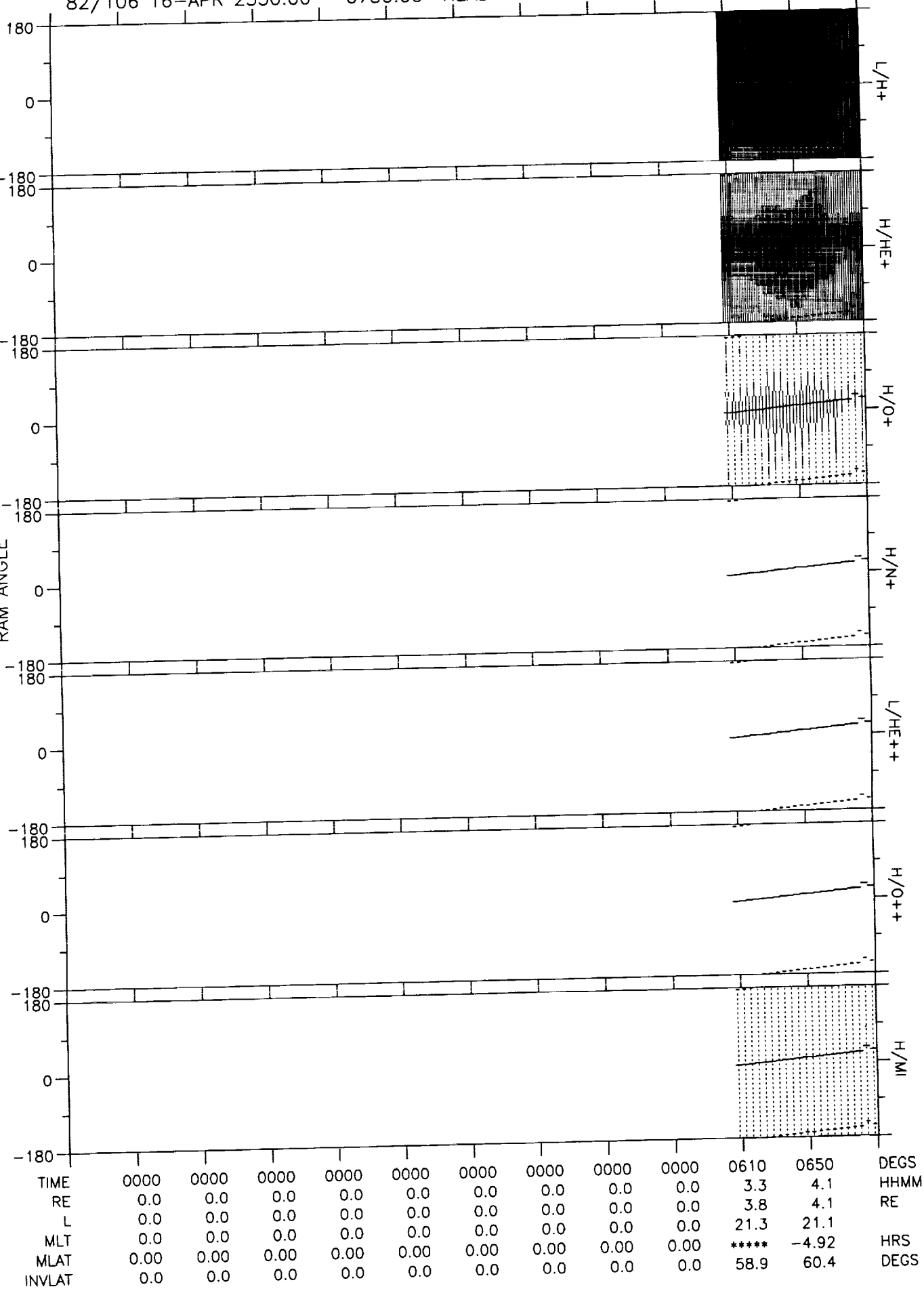
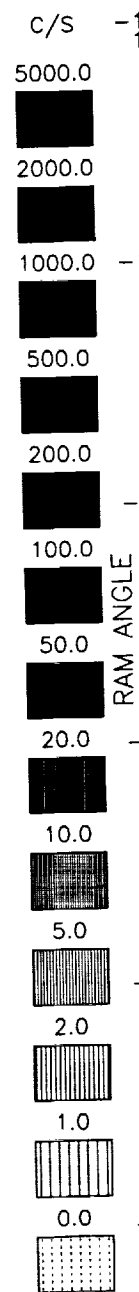
DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Tue Sep 21 14:34:22 1993

82/106 16-APR 1715:00 - 0115:00 HEAD= RL RPA= 0 to 1000 BIAS= A



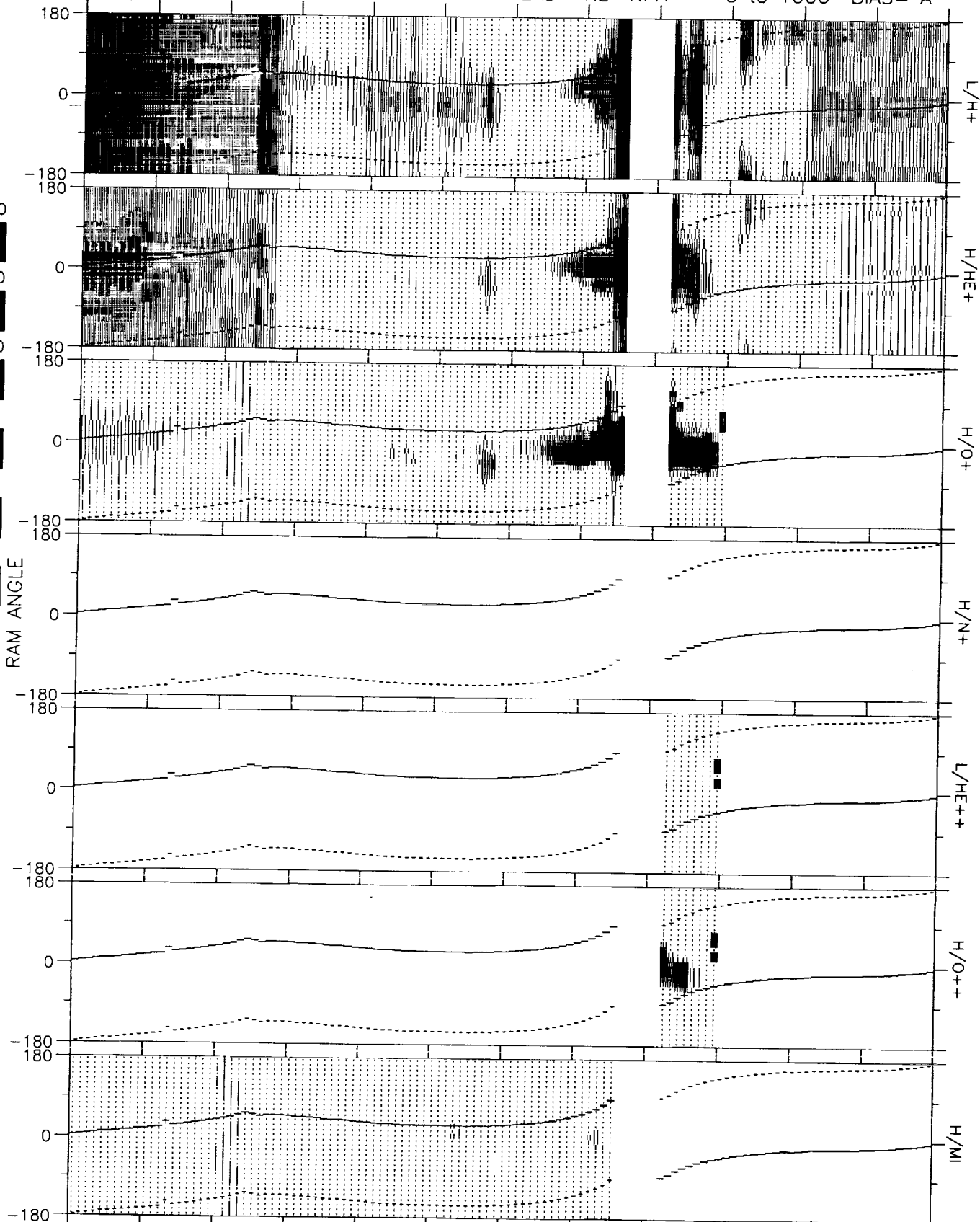
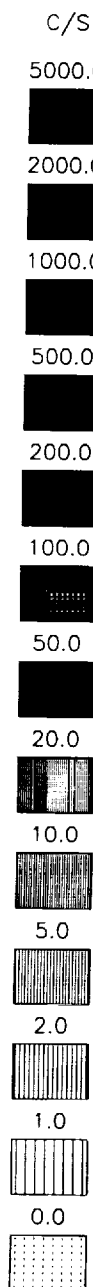
DE RIMS SPIN SUMMARY
SPIN/RADIAL/ALL (V1.0)
Tue Sep 21 14:36:37 1993

82/106 16-APR 2330:00 - 0730:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Fri Sep 24 16:37:59 1993

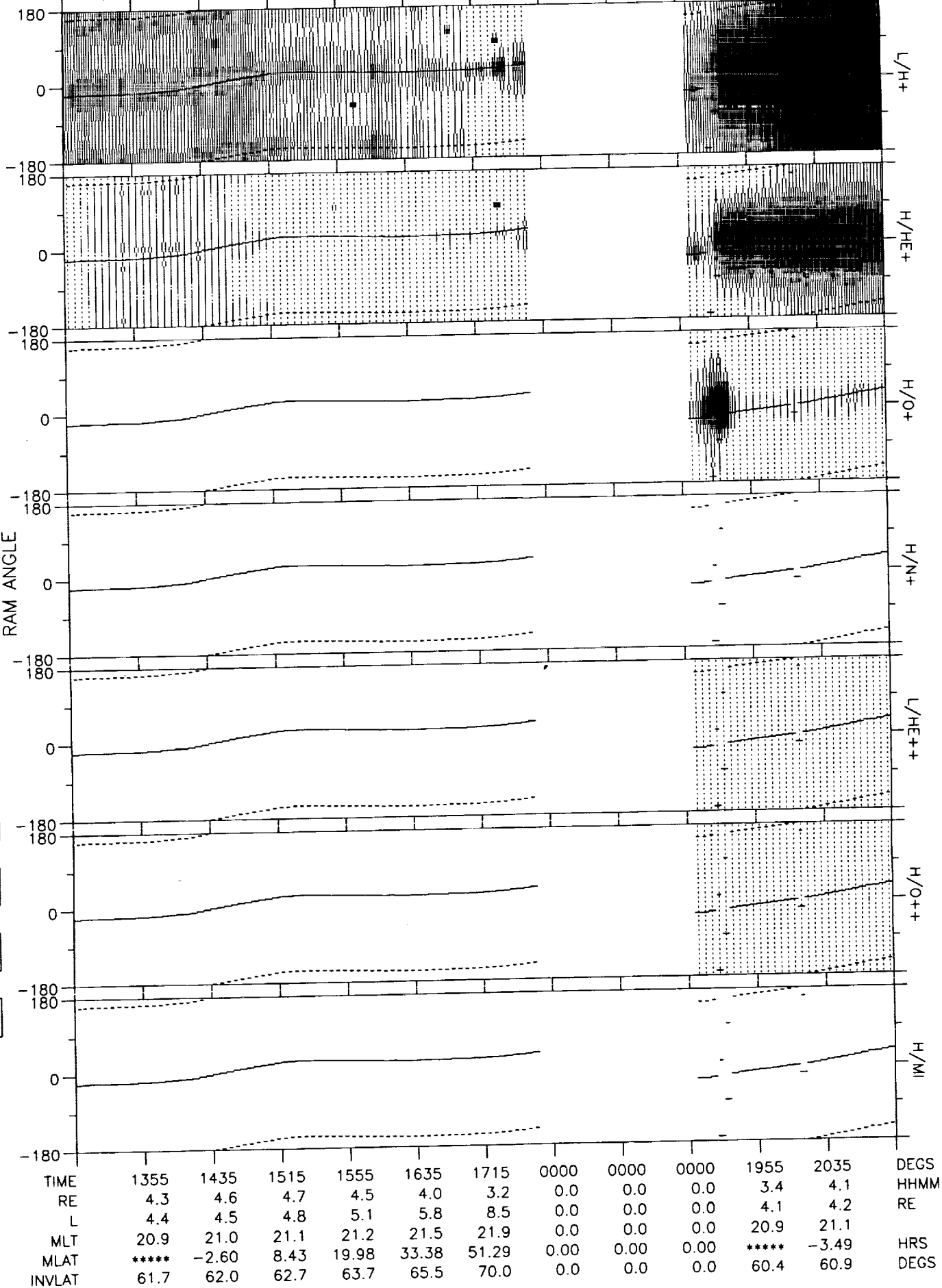
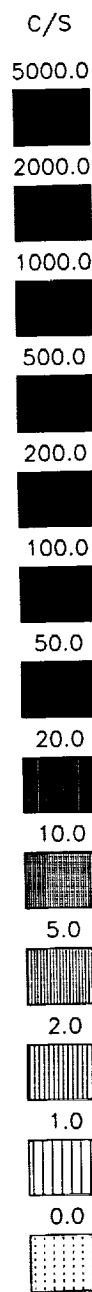
82/107 17-APR 0630:00 - 1430:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0710	0750	0830	0910	0950	1030	1110	0000	1230	1310	1350	DEGS
RE	4.3	4.6	4.7	4.4	3.9	3.1	1.9	0.0	2.5	3.5	4.2	HHMM
L	4.3	4.7	5.0	5.4	6.2	9.2	100.0	0.0	8.0	4.7	4.4	RE
MLT	21.0	20.9	20.7	20.6	20.4	20.1	14.9	0.0	21.2	20.9	20.9	
MLAT	0.36	9.32	17.55	26.32	37.20	53.52	83.16	0.00	*****	*****	*****	HRS
INVLAT	61.1	62.5	63.6	64.6	66.3	70.8	84.8	0.0	69.3	62.5	61.7	DEGS

DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Tue Sep 21 14:40:28 1993

82/107 17-APR 1315:00 - 2115:00 HEAD= RL RPA= 0 to 1000 BIAS= A

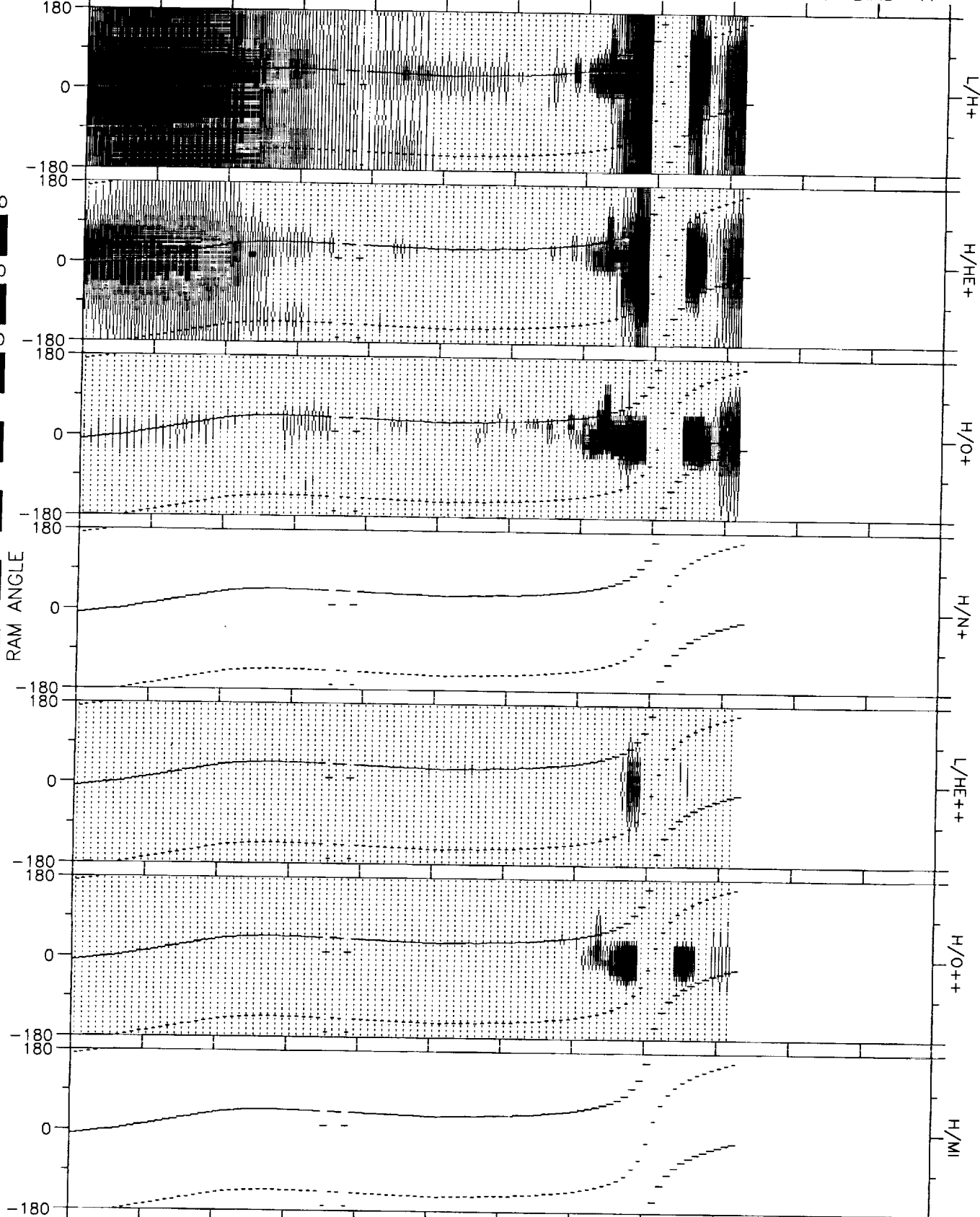


DE RIMS SPIN SUMMARY
SPINRADIAL ALL (V1.0)
Tue Sep 21 14:42:30 1993

82/107 17-APR 2000:00 - 0400:00 HEAD= RL RPA= 0 to 1000 BIAS= A



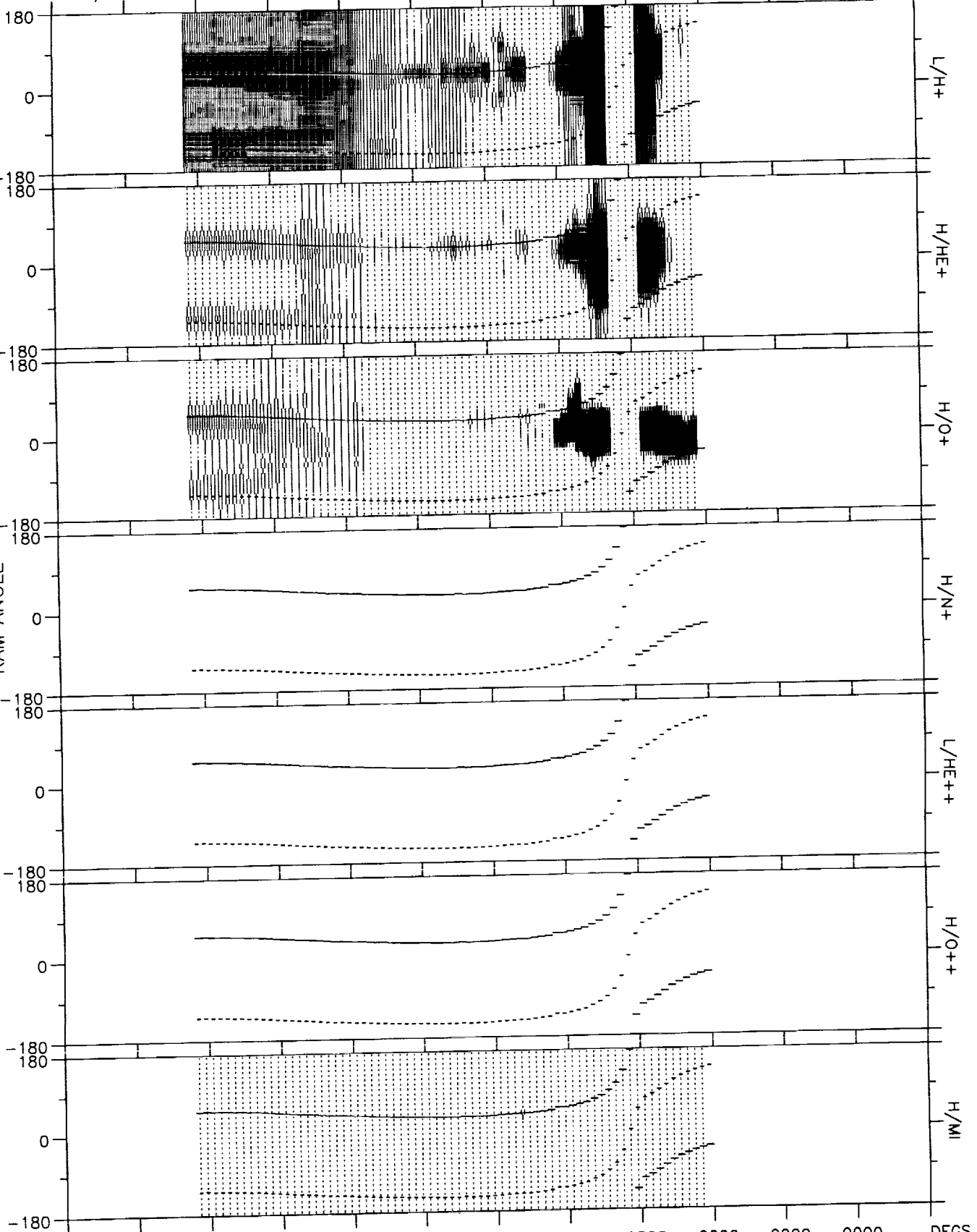
RAM ANGLE



TIME	2040	2120	2200	2240	2320	0000	0040	0120	0200	0000	0000	DEGS
RE	4.2	4.6	4.7	4.5	4.1	3.4	2.3	1.1	2.1	0.0	0.0	HHMM
L	4.3	4.8	5.5	6.6	9.1	18.2	100.0	1.1	4.2	0.0	0.0	RE
MLT	21.2	21.3	21.4	21.5	21.6	21.8	7.4	9.1	21.2	0.0	0.0	
MLAT	-1.62	11.69	23.75	35.44	49.02	65.96	83.80	****	****	0.00	0.00	HRS
INVLAT	61.1	62.7	64.8	67.1	70.6	76.4	86.8	15.7	60.6	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN/RADIAL/ALL (V1.0)
Tue Sep 21 14:44:56 1993

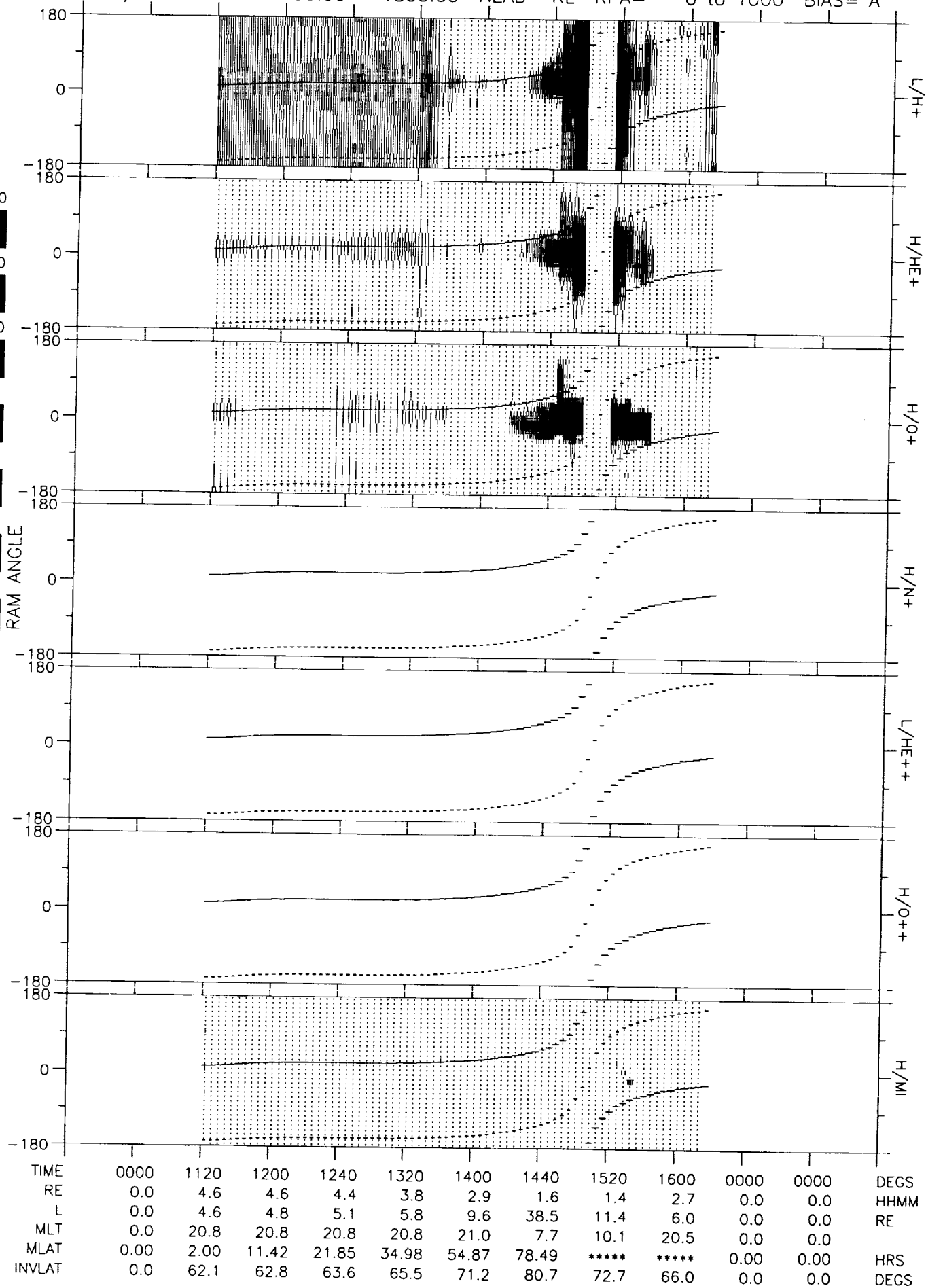
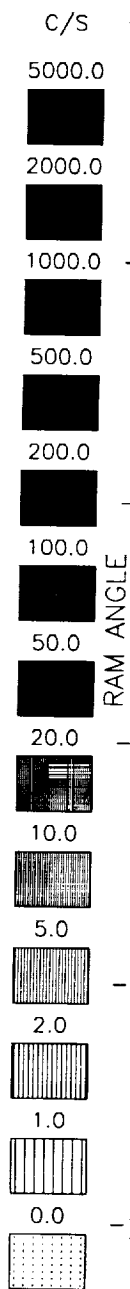
82/108 18-APR 0300:00 - 1100:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0420	0500	0540	0620	0700	0740	0820	0000	0000	0000	DEGS
RE	0.0	4.6	4.7	4.4	4.0	3.2	2.0	1.1	0.0	0.0	0.0	HHMM
L	0.0	5.1	5.8	6.6	8.1	13.1	49.6	2.8	0.0	0.0	0.0	RE
MLT	0.0	20.9	20.7	20.5	20.2	19.6	13.2	8.1	0.0	0.0	0.0	HRS
MLAT	0.00	17.74	26.52	35.35	45.69	60.42	77.28	****	0.00	0.00	0.00	DEGS
INVLAT	0.0	63.7	65.5	67.2	69.4	74.0	81.8	53.2	0.0	0.0	0.0	

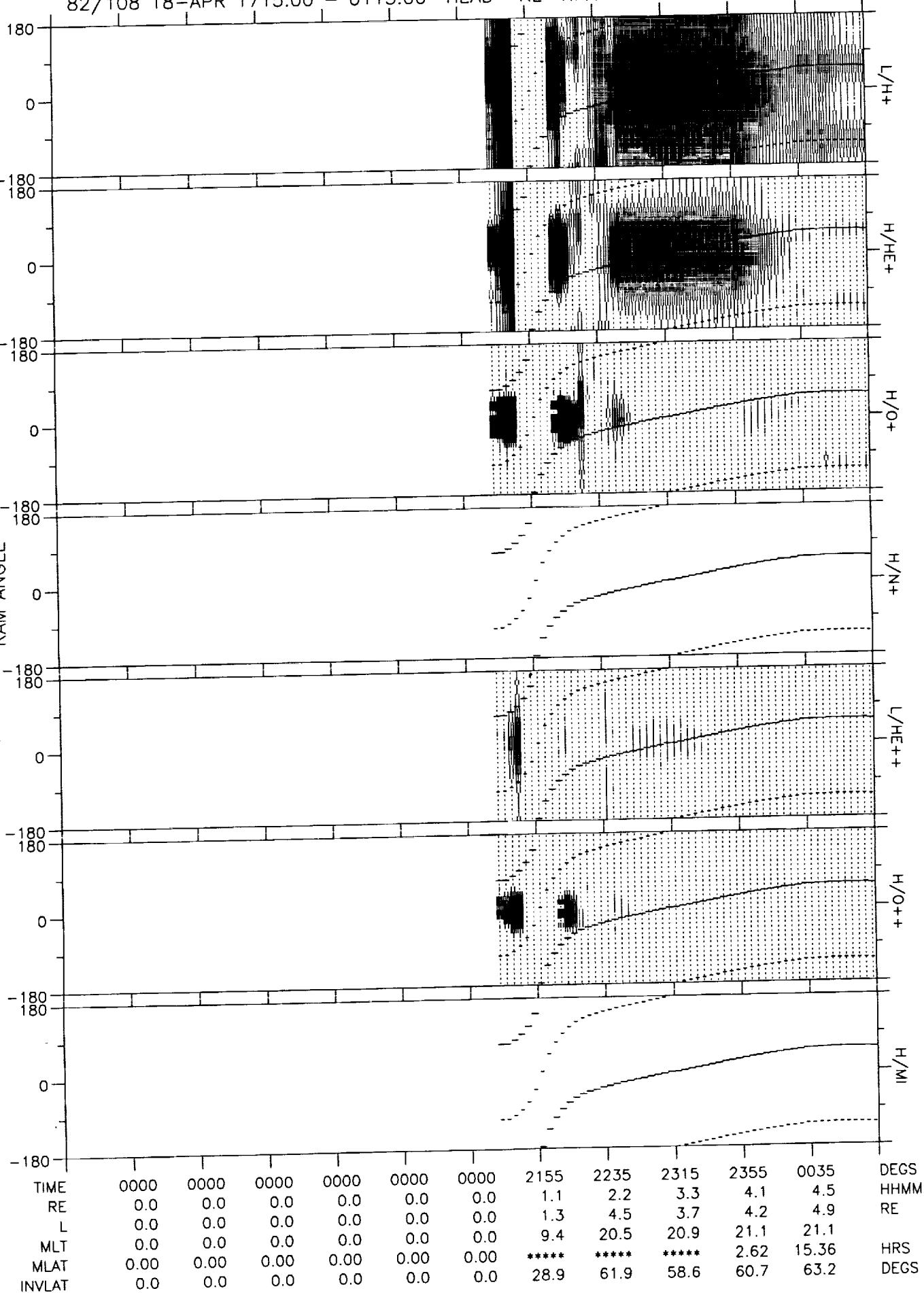
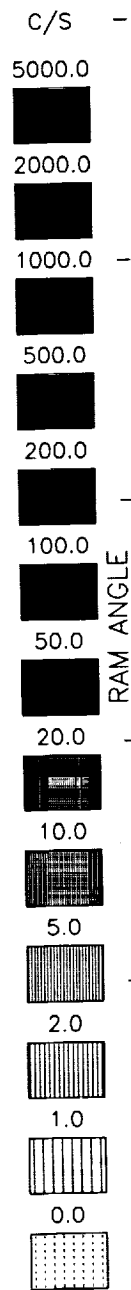
DE RIMS SPIN SUMMARY
SPINRADCALL (V1.0)
Tue Sep 21 15:13:39 1993

82/108 18-APR 1000:00 - 1800:00 HEAD= RL RPA= 0 to 1000 BIAS= A



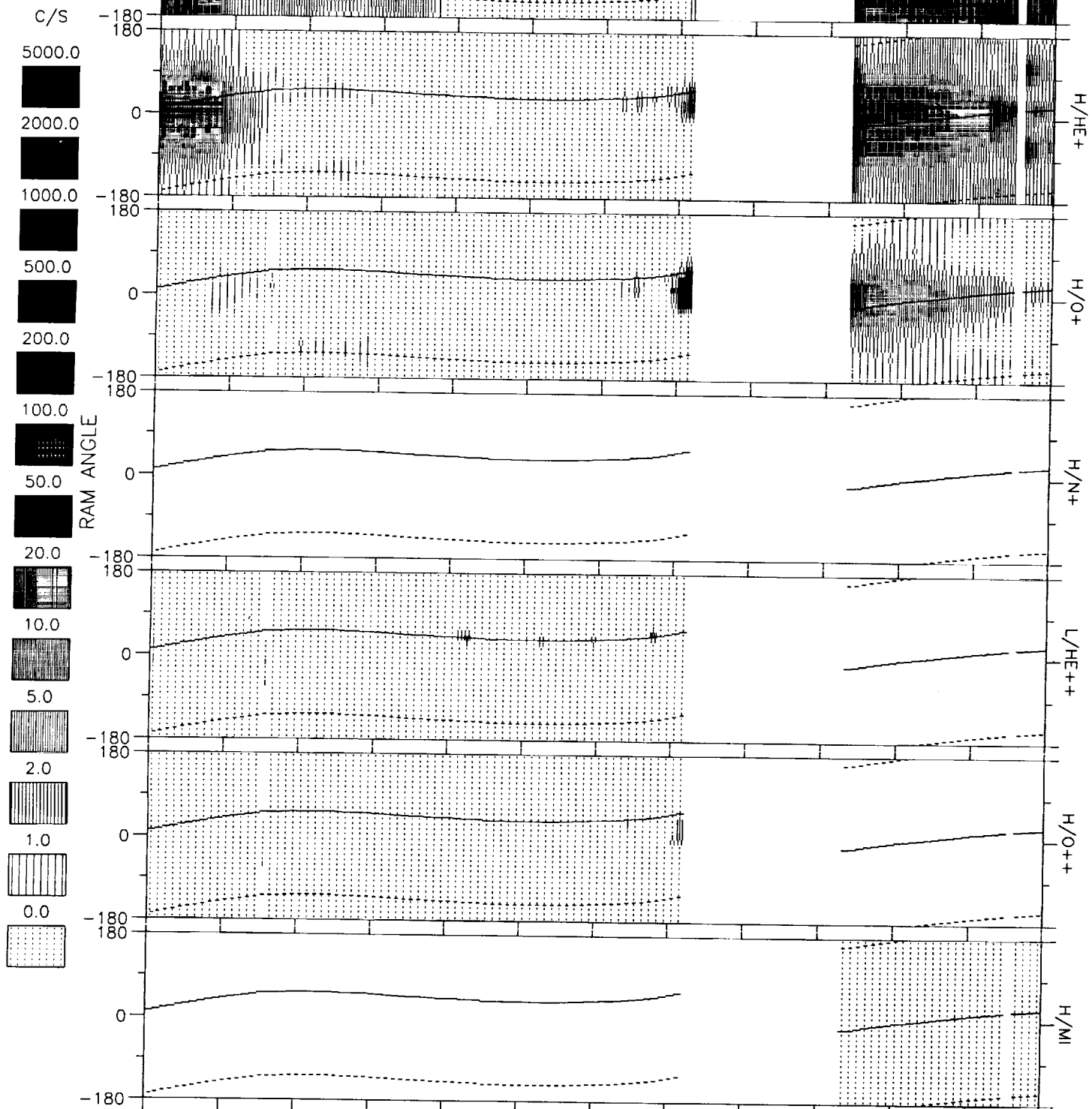
DE RIMS SPIN SUMMARY
SPIN_RADIALALL (V1.0)
Tue Sep 21 15:15:35 1993

82/108 18-APR 1715:00 - 0115:00 HEAD= RL RPA= 0 to 1000 BIAS= A



DE RIMS SPIN SUMMARY
SPIN RADIAL ALL (V1.0)
Tue Sep 21 15:18:23 1993

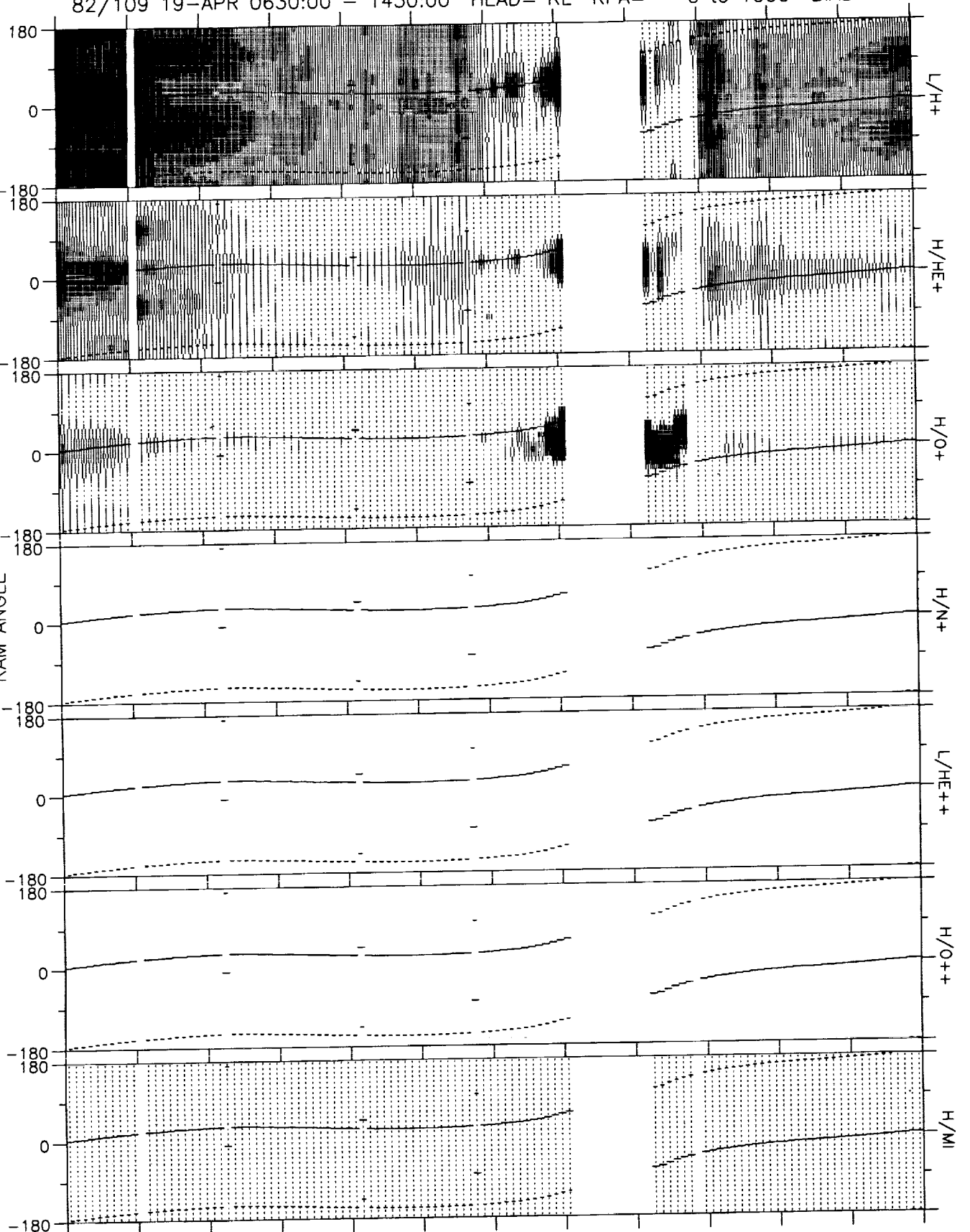
82/108 18-APR 2330:00 - 0730:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0010	0050	0130	0210	0250	0330	0410	0000	0000	0610	0650	DEGS
RE	4.3	4.6	4.7	4.5	4.0	3.2	2.0	0.0	0.0	3.4	4.1	HHMM
L	4.4	5.2	6.3	7.8	10.8	23.7	50.2	0.0	0.0	3.8	4.2	RE
MLT	21.1	21.1	21.0	20.9	20.7	20.0	11.2	0.0	0.0	21.2	21.0	
MLAT	7.75	19.61	30.23	40.77	52.61	68.50	76.44	0.00	0.00	****	-4.30	HRS
INVLAT	61.6	64.1	66.5	69.1	72.3	78.2	81.9	0.0	0.0	59.2	60.6	DEGS

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Tue Sep 21 15:23:12 1993

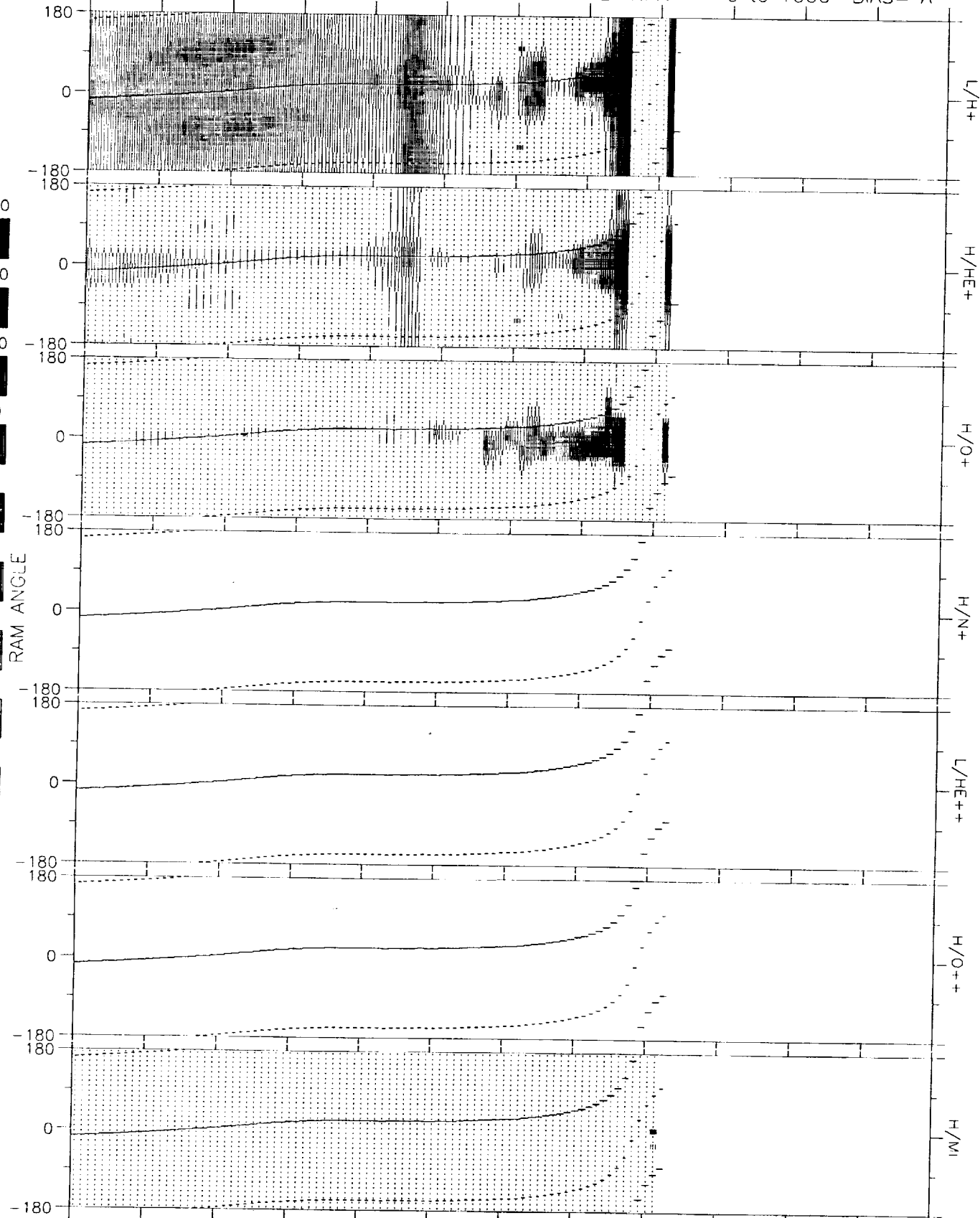
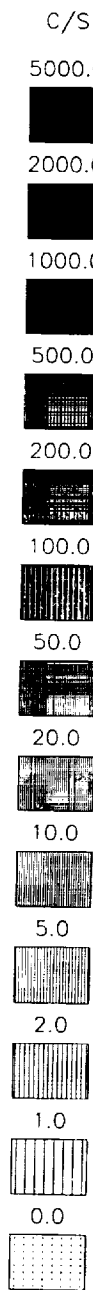
82/109 19-APR 0630:00 - 1430:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	0000	0750	0830	0910	0950	1030	1110	0000	1230	1310	1350	DEGS
RE	0.0	4.6	4.6	4.4	3.8	3.0	1.8	0.0	2.7	3.6	4.3	HHMM
L	0.0	4.7	5.0	5.4	6.2	9.9	48.2	0.0	7.1	4.7	4.5	RE
MLT	0.0	20.7	20.6	20.4	20.3	20.0	11.9	0.0	21.0	20.8	20.8	HRS
MLAT	0.00	9.58	17.20	26.76	38.09	55.64	81.04	0.00	****	****	****	DEGS
INVLAT	0.0	62.6	63.5	64.6	66.3	71.4	81.7	0.0	68.0	62.5	61.8	

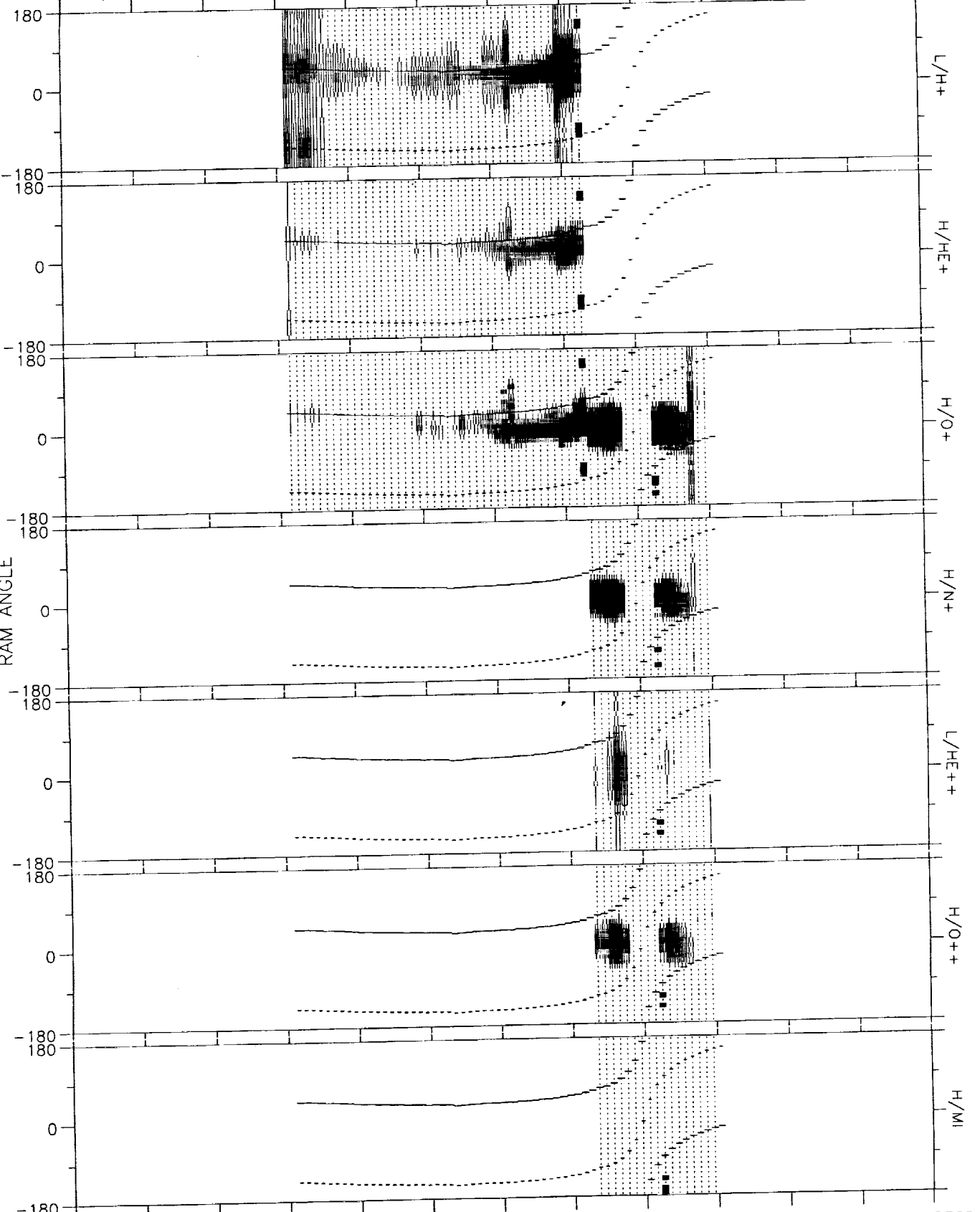
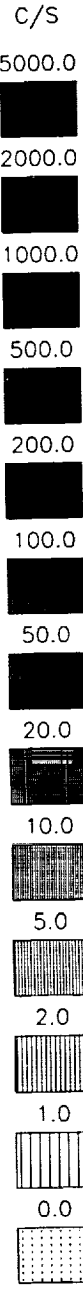
DE RIMS SPIN SUMMARY
SPIN-RADIAL-ALL (V1.0)
Set Oct 16 12:14:28 1993

82/109 19-APR 1315:00 - 2115:00 HEAD= RL RPA= 0 to 1000 BIAS= A



TIME	1355	1435	1515	1555	1635	1715	1755	1835	0000	0000	0000	DEGS
RE	4.3	4.6	4.7	4.4	3.9	3.1	1.9	1.2	0.0	0.0	0.0	HHMM
L	4.5	4.6	4.8	5.1	5.9	9.1	78.7	3.1	0.0	0.0	0.0	RE
MLT	20.8	20.8	20.9	21.1	21.4	21.9	4.1	10.0	0.0	0.0	0.0	
MLAT	*****	-1.86	9.19	20.90	34.67	53.50	79.13	*****	0.00	0.00	0.00	HRS
INVLAT	61.8	62.1	62.7	63.7	65.7	70.6	83.5	55.4	0.0	0.0	0.0	DEGS

DE RIMS SPIN SUMMARY
SPIN/RADIALALL (V1.0)
Sat Oct 16 12:17:12 1993



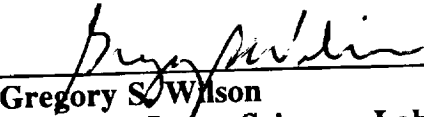
TIME	0000	0000	0000	2240	2320	0000	0040	0120	0200	0000	0000	DEGS
RE	0.0	0.0	0.0	4.5	4.0	3.3	2.1	1.1	2.2	0.0	0.0	HHMM
L	0.0	0.0	0.0	6.8	9.3	20.4	85.0	1.9	4.2	0.0	0.0	RE
MLT	0.0	0.0	0.0	21.4	21.5	21.7	8.2	9.0	21.1	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	36.74	50.25	67.96	79.05	*****	*****	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	67.4	70.9	77.2	83.8	42.9	60.7	0.0	0.0	

APPROVAL

DYNAMICS EXPLORER 1, RETARDING ION MASS SPECTROMETER SUMMARY SPECTROGRAMS—82/001 TO 82/109 SPIN-TIME SPECTROGRAMS FOR H⁺, HE⁺, O⁺, N⁺, O⁺⁺, M/Z=2, AND MOLECULAR IONS

DE 1/RIMS Investigators

This report has been reviewed for technical accuracy and contains no information concerning national security or nuclear energy activities or programs. The report, in its entirety, is unclassified.



Gregory S. Wilson
Director, Space Sciences Laboratory

REPORT DOCUMENTATION PAGE

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13. ABSTRACT (Maximum 200 words) The Retarding Ion Mass Spectrometer (RIMS) experiment onboard the Dynamics Explorer 1 (DE 1) satellite was designed to perform energy and mass-per-charge analysis on low-energy ions (<50 eV) with mass/charge ratios ranging from 1 to 40 amu/Z. The DE 1 satellite, carrying the RIMS experiment, was launched into an elliptical polar orbit on August 3, 1981. The ~7.5 hour orbit has perigee of 675 km altitude and apogee of 24,875 km altitude. This document, and those that follow in this series, contains summary RIMS data spectrograms for each orbit for which RIMS data are available. The RIMS instrument began returning science data on day 280 of 1981 and continued to return usable data until the end of the DE mission in March 1991. It should be noted that studies of the RIMS data set should be conducted only with a thorough awareness of the material described in the introduction section presented here, or in collaboration with a scientist familiar with RIMS data analysis.				
14. SUBJECT TERMS Low-Energy Ions, Inner Magnetosphere, DE RIMS Data			15. NUMBER OF PAGES 381	
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